

**Tennessee College of Applied Technology—Livingston**

2021 Governor's Investment in Technical Education 2.0 (GIVE 2.0)

Robotics and Automation in the Upper Cumberland

IN PARTNERSHIP WITH:

1. Cookeville Putnam County Chamber of Commerce  
Highlands Economic Partnership—Workforce and Education  
Livingston Overton County Chamber of Commerce


2. Tennessee College of Applied Technology—Livingston


3. Clay County School System  
Jackson County School System  
Overton County School System  
Pickett County School System  
Putnam County School System  
White County School System

4. Automation Tool Company  
TTI Floorcare  
Aphena Pharmaceuticals  
Hutchinson FTS, Inc.

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Funding Requested:  
\$1,000,000.00

  
President, TCAT Livingston

  
Project Director

### **Project Summary**

The Tennessee College of Applied Technology Livingston and the school systems of: Clay County, Jackson County, Overton County, Pickett County, Putnam County, and White County GIVE 2.0 Program for Robotics and Automation in the Upper Cumberland will enhance our existing Advanced Manufacturing Program of Study. The GIVE 2.0 Grant funds will be utilized to purchase equipment for the Advanced Manufacturing Program of Study that will be used in Dual Enrollment Robotics and Mechatronics classes at TCAT Livingston, Cookeville High School, and White County High School. The pathway will allow high school students from Clay County, Jackson County, Overton County, Pickett County, Putnam County and White County to receive training that will culminate in a post-secondary certificate or diploma from the Advanced Manufacturing/Industrial Maintenance program at TCAT Livingston. Dual Enrollment High School Students will have the opportunity to take Robotics and Automation and Mechatronics classes, between 90-1080 clock hours, while in high school. Students who are enrolled in TCAT Livingston courses will earn Dual Enrollment credit. In addition, students can also earn Industry Credentials as follows: Fanuc Robotics Industry Certificate, NC3 Precision Measurement Industry Certification, NC3 Multimeter Industry Certification. These industry certifications will allow students in this pathway to earn additional Early Post-Secondary Opportunities while in Dual Enrollment courses.

The GIVE 2.0 Grant will also include Work-Based Learning activities as an integral component for juniors and seniors. These activities could include job shadowing, interview boot camp, career fairs, site visits, industry guest speakers, and internships. This will help students make informed decisions about college and career to turn out prepared graduates who are ready for workforce. The goal is increase the number of post-secondary credentials being earned and contributing to the Upper Cumberland Regions ability to meet the Drive to 55 goal. The partnership between the county school systems, industry partners, in conjunction with the Cookeville/Putnam County Chamber of Commerce and the Overton County Chamber of Commerce will allow TCAT Livingston to offer outstanding courses with state of the art equipment to train the future workforce for high skilled, high paying, and in demand occupations in advanced manufacturing.

## **Section 1: Demonstration of Need**

According to data from the Tennessee Department of Labor and Workforce Development, job demand for high wage, high skill positions in the Advanced Manufacturing sector is increasing. The Upper Cumberland region of Tennessee has been attractive for manufacturers due to location, labor supply, business climate, and education. According to the Tennessee Department of Economic and Community Development, the percentage of Tennesseans working in the manufacturing sector is 1.38 times the national average.

The 2020 Leap Report evaluated the academic supply and occupational demand across each region in Tennessee. Manufacturing assemblers and Maintenance and Repair Workers are both identified as occupation groups with employment needs in the Upper Cumberland Region and multiple regions in the state.

The demand for manufacturing assemblers and maintenance and repair workers will be high in the Upper Cumberland Region; according to the Tennessee Department of Economic and Community Development County Profile Tool, the Upper Cumberland Region has an employment in the Advanced Manufacturing sector of 20,065 employees in 428 establishments. The Upper Cumberland Region Job outlook is very high for manufacturing technicians and maintenance and repair technicians. The Highlands Pathways Advanced Manufacturing Sub Committee advisory group surveys employers in our region. The survey data shows that employers report openings for manufacturing technicians and maintenance & repair technicians and a strong demand for employees in the short term and long term.

The demand for employees in the advanced manufacturing sector is estimated to be over 12,000 openings thru 2024 according to the Occupational Outlook Handbook. The current workforce is nearing retirement age and this will contribute to a need to fill vacancies with high skilled employees with stackable credentials who have trained in advanced manufacturing courses. The Occupational Outlook Handbook developed by the Bureau of Labor Statistics lists many occupations in the advanced manufacturing sector including: assemblers, manufacturing technicians, inspectors, industrial maintenance mechanics, machine setup technicians and these positions require skills training in plc controls, robotics, and mechatronics.

The MIT living wage calculator for the Upper Cumberland region in Tennessee, for a family of 5 with both parents working, is considered \$15.21/hour. According to the County Profile Tool on the Tennessee Economic and Community Development site the average annual wage for this sector is \$53,871. The average annual entry level wages are \$33,029 for Manufacturing Technicians, \$35,650 for Maintenance and Repair Technicians.

The current unemployment rate is around 4.5% so the need for employees is high so graduates of TCAT Livingston with the technical training are in high demand for advanced manufacturing jobs.

Industry partners for the TCAT Livingston/Upper Cumberland regional education partners are requesting a local workforce equipped with the technical skills and industry credentials needed in the advanced manufacturing sector.

The GIVE 2.0 Grant would provide funds necessary to enhance our advanced manufacturing program offerings thru Dual Enrollment Mechatronics and Robotics courses at our main campus at TCAT Livingston which serves Clay County, Jackson County, Overton County, and Pickett County Dual Enrollment students. Our other sites are the Putnam County School System at Cookeville High which houses Dual Enrollment Mechatronics and Robotics and Automation. The last site is in the White County School System on the campus of White County High School which houses Mechatronics. The Dual Enrollment courses allow high school students from 6 counties to earn high school and college credit in advanced manufacturing. It also allows these students opportunities to earn industry credentials such as the NC3 Precision Measurement Industry Certification and the NC3 Multimeter Industry Certification.

TCAT-Livingston, Clay County Schools, Jackson County Schools, Overton County Schools, Pickett County Schools, Putnam County Schools, and White County Schools along with industry and community partners propose the enhancements and improvements to our Advanced Manufacturing Program of Study. The enhancements to our programs will address local and regional workforce needs, strengthen our Tennessee Regional Pathways between secondary and post-secondary institutions. The goal of proposal is to make post-secondary attainment affordable and accessible to all students. The increase in certificates and diplomas will increase the Upper Cumberland's regional push to meet the Governor's Drive to 55 initiatives by allowing new students to be working toward a post-secondary credential thru dual-enrollment and industry credentials.

## **Section 2: Program Plan**

Grant activities will begin in December of 2021 by beginning the procurement process to purchase the Fanuc APT Manufacturing Cell, the 3 Fanuc Collaborative Robots, and 2 of the Fanuc ER 4:A Robots. Appendix D gives a detailed timeline of the activities and actions required for the success of the grant. Included in the timeline is an overview of the activity along with the measurable outcomes for each of the activities. TCAT Livingston will also purchase any textbooks and supplies and have those in place by the end of the school year. The outcome is that students at the 3 campuses will have the additional equipment, supplies, tools, and textbooks needed to complete the additional courses in mechatronics and robotics to enhance our Advanced Manufacturing Program of Study.

TCAT Livingston will advertise in January for a Workforce/Work-Based Learning Coach to serve Clay County, Jackson County, Overton County, Pickett County, Putnam County, and White County. A job description is included in Appendix E. The coach will be responsible for working with employers and students in the region to provide meaningful work-based activities.

Activities will begin in elementary schools and the coach will spend time in the classrooms providing career exploration activities and assist with guest speakers from business and industry. The coach will also work with business and industry employers to schedule industry tours for middle school students and work-based internship opportunities for high school students. The coach will coordinate and report on student activity to the project director and advisory committee. The coach will also be responsible for visiting all the high schools in the grant application and recruiting high school students to enroll in the advanced manufacturing dual enrollment courses. The coach will work on this enrollment in collaboration with the College and Career Readiness Coaches and School Counselors at each school. A critical role and responsibility of the coach will be to establish relationships with employers, parents, teachers, and students. The coach will prioritize marketing of the program and communication which is crucial to increase student enrollment and fulfill skills gaps in workforce in our region. The measurable outcome for this activity will be tracking the increase in student enrollment in TCAT Livingston Advanced Manufacturing courses at all sites based on previous year enrollment. Another outcome will be tracking the number of EPSO's earned by student.

The position of the Workforce/Work-Based Learning Coach will focus on the recruitment of underrepresented student groups such as low-income students and females. The coach will work to identify the student groups who are traditionally underrepresented and will develop a recruitment plan to encourage students to pursue careers in Advanced Manufacturing which are high skill, in demand, and high wage. The Appalachian Regional Commission calculates that the 3 year average poverty rate and unemployment rate are as follows for the counties of the grant partners:

County	Poverty Rates	Unemployment Average
Clay County	26.1%	5.4%
Jackson County	19.2%	4.9%
Overton County	17.2%	4.9%
Pickett County	20.0%	4.3%
Putnam County	18.9%	3.6%
White County	16.2%	3.8%

This data shows that our 6 counties participating in the GIVE 2.0 Grant application have high poverty rates and there is a need for skilled individuals to join workforce. The coach will plan activities that educate parents, community members, and students of the need for a skilled workforce and the shortage of workers with technical skills for advanced manufacturing jobs. The measurable outcome for this activity will be the increase in the number of students who enroll with a focus on economically disadvantaged students, english language learners, students with disabilities, and female students who enroll in Advanced Manufacturing courses in this program of study.

A major part of this GIVE 2.0 Grant Application will be increasing student engagement during the transition from middle school to high school. A summer bridge CTE program will be established as part of this grant. The program will consist of a one-week program to introduce rising freshmen the opportunity to familiarize themselves with Career & Technical opportunities available to them at each high school. The program will include industry tours, a tour of TCAT Livingston, guest speakers and hands-on activities in the career and technical shop/labs at TCAT Livingston, Cookeville High School, and White County High School. The Bridge program will be coordinated by the Workforce/Work-Based Learning Coach and the outcomes of the program will be determined by tracking the number of students attending the Summer Bridge Program who enroll in advanced manufacturing dual enrollment courses in each county.

Work Based Learning will also include a course at each high school that students can enroll and participate in an internship which will earn one credit in their program of study. Students who have completed at least 2 to 3 courses in dual enrollment mechatronics and robotics and automation will have the opportunity to enroll in an internship course and work at employer partner sites. The Workforce/Work Based Learning Coach will work with students to assist them in completing resumes, interview preparation, and scheduling interviews with employers. Summer internships will also be established as part of the grant activities. Students will complete an internship application indicating their program of study and a career field that they want to pursue. These applications will be reviewed and the WBL Coach work to secure summer internship opportunities for students. The Workforce/WBL Coach will follow the WBL Framework that is established in SBE Rule 0520-01-03-06 which is outlined in High School Policy 2.103. The coach will follow the Tennessee WBL policy guide for applicable guidelines concerning internships as stated below:

1. Structure of the WBL Program
2. Coordination of the Program
3. Supervision of Students
4. Development of Personalized Learning Plans
5. Student Assessment Using Multiple Measures
6. Evaluation

The Workforce/WBL Coordinator will be work with counselors to assist students in choosing a focus and working within their internship to apply their learning experiences to prepare them for post-secondary and careers. A student's internship should focus on applying their theory in the classroom to relevant placements withing their program of study and connecting their experiences and producing solid learning outcomes in the workplace. The student should be exposed to multiple and diverse career options during their placements under the supervision of the WBL Coach and the employer mentor. The student portfolio will document weekly progress and include all documentation and artifacts including a section for the student to analyze reflect on their WBL Internship. The WBL Coach will conduct site visits to ensure that progress to learning objectives is being made by the students.

Employer interviews and collaboration with the WBL Coach will ensure that students are on track and gaining relevant workforce skills and education to prepare them for industry opportunities. The measurable outcome for this activity will be tracking the number of students completing 2 to 3 courses and participating in an internship course for credit. Also, the number of students participating in summer internships will be tracked as well.

Another major component of the Robotics and Automation in the Upper Cumberland GIVE 2.0 Grant will be to increase teacher engagement with business and industry. A key to the success of this grant will be the collaboration of teachers with business and industry partners. The grant will fund opportunities for teachers and counselors to complete industry tours in both the fall and spring semesters. The industry visits will constitute a Teacher Externship experience for the teachers to visit and collaborate with business and industry partners. The Workforce/WBL Coach will work with the teachers and schedule the visits, discuss how to incorporate the industry visits and experiences into their lessons across academic disciplines. The goal of these visits is to expose teachers to business and industry career experiences and, also to help the teachers to understand the skills students need to be successful in the workforce. The Workforce/WBL Coach will allow the teachers to complete a survey detailing their industry visit experience and assist them in completing lesson plans on career exploration and industry skills.

GIVE 2.0 Grant funds will be utilized to enhance existing mechatronics labs and increase our robotics equipment in all shops and labs at TCAT Livingston, Putnam County, and White County. This equipment has been recommended by the program's advisory committee which is composed of employers, secondary partners, and business and industry members. The grant will provide funds to purchase the Fanuc APT Manufacturing Cell, the 3 Fanuc Collaborative Robots, and 2 of the Fanuc ER 4:A Robots. The additional robotics equipment and manufacturing cell will allow expansion of our enrollment capacity in Dual Enrollment Advanced Manufacturing for all 6 counties participating in the grant. The additional equipment will also be utilized by our full-time programs to increase enrollment so we can continue to increase post-secondary credentials being awarded each year which is a Drive to 55 Goal. Students in all the dual enrollment mechatronics and robotics and automation programs will complete the course using the same curriculum as the post-secondary students on the main campus. Upon completion of high school, students will be able to enter the post-secondary program at the main campus and complete the program in no more than a year. Dual enrollment students will work on industry credentials in high school and work to gain industry certifications in: Fanuc Robotics, NC3 Precision Measurement, NC3 Multimeter. Post-secondary students will earn additional industry certifications in Fanuc, Siemens, and NC3. The Dual Enrollment and Post-Secondary Programs offered thru TCAT Livingston will offer internships to the junior and senior high school students and co-op opportunities to adult students in their last trimester of training. These co-ops will be coordinated with employers by the full-time instructor and will enhance and expand the student's training opportunities. The grant will allow students to have opportunities in high school and in post-secondary to train on relevant skills and master competencies in the advanced manufacturing program of study.

A main objective will be to increase the number of post-secondary credentials being awarded to students. TCAT Livingston had 100% placement rate for advanced manufacturing in 2019-2020. This placement rate indicates that the equipment and curriculum being used prepare students to meet the needs of employers in the region. Each year TCAT Livingston must meet the requirements for quality and outcomes so the program will remain accredited thru the Council on Occupational Education.

The Upper Cumberland Work Ethic Diploma Distinction will be marketed to all dual enrollment students at all six counties. This distinction for high school students focuses on a student providing documentation for proof of good attendance, punctuality, work ethic, accountability, CTSO participation, leadership activities, satisfactory drug test, industry certifications, EPSO's, and other categories. The Workforce/WBL Coach will develop marketing materials, participate in orientation nights, and recruit additional employers to participate in the program and help students to develop their student portfolios to showcase their work toward the distinction.

The TCAT Livingston is governed by the Tennessee Board of Regents (TBR) and all TBR policies and procedures will be followed in implementing the GIVE 2.0 Grant. Decisions regarding grant activities will be made in accordance with the policies and procedures of TBR with final decisions made by the President. An advisory committee will be appointed to maintain oversight of the grant activities throughout the project period. The committee will be comprised of a representative from each of the partners of the grant and will meet twice during the fiscal year. Through the collaboration of this committee, the TCAT Livingston, Clay County School System, Overton County School System, Jackson County School System, Pickett County School System, Putnam County School System, and White County School System will be held accountable for the activities and outcomes of the grant. The project director for the grant will be employed by the TCAT Livingston. The primary duties will be to oversee the implantation, reporting, compliance, and outcomes of the grant. The project director will coordinate with the Workforce/Work-Based Learning Coach to ensure that all activities are being conducted and partnerships with employers are being established.

### **Section 3: Strength of Partnership**

The Governor's Investment in Vocational Education Grant 2.0 alliance includes local education members, community leaders, and area industry partners. Tennessee College of Applied Technology Livingston, Clay County School System, Clay County High School, Jackson County School System, Jackson County High School, Overton County School System, Livingston Academy, Pickett County School System, Pickett County High School, Putnam County School System, Cookeville High School, and White County School System, White County High School will represent the county's education institutions.



Community leaders from the Upper Cumberland Local Workforce Development Board Area 7, the Tennessee Department of ECD Upper Cumberland Region, the Overton County Chamber of Commerce, the Cookeville/Putnam County Chamber of Commerce, and the Highland's Economic Partnership — Workforce and Education — Pathways program will act on behalf of the community and will play a key role implementing the GIVE 2.0 grant. Automation Tool Company, TTI Floorcare, Ficosa, Aphenia Pharmaceuticals, and Hutchinson, Inc. will be local industry partners in this GIVE 2.0 grant.

The Memorandum of Understandings (appendix F) agreed upon will provide details of the roles and responsibilities of each partner and how their efforts will lead to developing long term partnerships. The partnerships will support efforts to develop an employer-driven career path that can be obtained through higher education programs. This partnership provides high school students the opportunity to earn both TCAT (clock hours) and high school graduation credits simultaneously upon successful completion of qualified course(s). This GIVE 2.0 grant application is entitled "Robotics and Automation in the Upper Cumberland". The six school systems will encourage students to enroll in advanced manufacturing coursework for this program of study. The school systems will provide adequate facilities, and instructional materials. Feedback from students and their progress will be monitored and this data will be shared during advisory board meetings.

The TCAT Livingston will serve as the lead entity and fiscal partner for the GIVE 2.0 grant. In this capacity, TCAT Livingston will collaborate with each partner representative to coordinate grant objectives, scheduling meetings, and events. The TCAT Livingston, and educational partners have successfully implemented and maintained technical programs to address the needs of the local workforce. As the need of the local workforce shifts, the education partners are quick to adjust curriculum as suggested by the advisory panel and the Highland Economics Partnership — Workforce and Education — Pathways Committee.

The Highlands Workforce Development and Education Pathways initiative has been successful due to their ability to recognize skills gaps and suggest new and innovative ideas to address local workforce needs. The Highlands Pathways Committee works under the Cookeville/Putnam County Chamber of Commerce and works in collaboration with other local chamber of commerce to focus on community goals and attracting and retaining workforce. The Cookeville/Putnam County Chamber of Commerce and Overton Chamber of Commerce work in collaboration with the Tennessee Department of Economic Development to ensure that Overton and Putnam County are attractive to new business and industries ready to settle and locate in the Upper Cumberland.

Employers in the Upper Cumberland region recognize the importance of a workforce comprised of employees who can solve problems, have a strong work ethic, and are trained in technical skills. These employers will assist in the enhancement of TCAT Livingston's Advanced Manufacturing Program of Study. A list of the employers who are participating in the initial partnership can be found in appendix C. These partnerships are essential to the success of the program and will require active participation. Our industry partners have pledged their support by providing direct reinforcement of academic, technical, and employability skills through Work Based Learning programs. These employers will also provide guest speakers, industry tours, internships, co-op opportunities (adult students), field trips, mock interviews, and participation in career fairs and program of study fairs.

#### **Section 4: Budget Plan**

Tennessee College of Applied Technology Livingston and the county educational partner's objective for the GIVE 2.0 Grant funds is to provide a pathway in advanced manufacturing for students in k-12 to participate and transition into post-secondary opportunities to provide a high skilled workforce ready for in demand and high wage jobs. The grant funds will allow us to enhance our equipment and increase enrollment in dual enrollment courses in the high schools in Clay, Jackson, Overton, Pickett, Putnam, and White County. The increase in dual enrollment in high school will allow students who continue in the post-secondary program to complete the advanced manufacturing program of study in around a year's time. This will contribute to the Upper Cumberland Region improving post-secondary college degree and certificate attainment for Tennessee's Drive to 55. A detailed list with costs is provided in Appendix B.

The advanced manufacturing programs are housed at the main campus of TCAT Livingston which serves dual enrollment from Overton County, Jackson County, Pickett County, and Clay County; at Cookeville High School and White County High School. The new equipment purchased will be distributed as follows:

1. TCAT Livingston-- A Fanuc Collaborative Robot, the Manufacturing Work Cell with Fanuc Robot, and one of the Fanuc 4E robots will all be located on the main campus to allow dual enrollment and adult students to access and train on the new equipment. TCAT Livingston will provide additional classroom and shop space to house the increase in dual enrollment students in the advanced manufacturing program.
2. Cookeville High School (Putnam County) — A Collaborative Fanuc Robot will be added to the mechatronics and robotics and automation areas for advanced manufacturing. Cookeville High School has 2 existing classroom/shops to house the equipment.
3. White County High School (White County) — A Collaborative Fanuc Robot and a Fanuc 4E robot will be located at White County High School. White County has existing classroom/shop space to house the increase to dual enrollment advanced manufacturing students.

Funding is included in the GIVE 2.0 Grant for salary and benefits to hire an experienced instructor from the advanced manufacturing field. The goal is to hire an instructor who can assist students in mastery of the advanced manufacturing course competencies, model technical skills, and provide relevant projects in the program to prepare students for workforce.

A Workforce/Work Based Learning Coach will also be hired to facilitate student opportunities in internships, apprenticeships, co-op placements, and to assist students in their transition from secondary to post-secondary education. The Workforce/WBL Coach will coordinate student placements, conduct WBL site visits. The Instructor and Workforce/WBL Coach will visit business and industry partners and employers during the summer. These externship opportunities will allow time for collaboration between the instructor, the coach, and industry employers. The site visits will provide hands-on training for the instructor and coach in current industry practices.

Funding included in the budget will also be utilized to pay for transportation costs for Clay County, Jackson County, Overton County, and Pickett County to the TCAT Livingston Campus. The bus costs for field trips, industry trips, and career fair trips will be reimbursed to counties as well. The funds will cover hourly driving time, hourly driver pay (sitting), mileage (.47 cents per mile) for each county listed above.

Supplies and materials for the advanced manufacturing program will include online textbook access to the Amatrol curriculum software. Student supplies will include hand tools, multimeters, screwdrivers, wire pliers, and electrical hand tools.

Marketing funds will be spent on flyers, banners, and recognition for the Work Ethic Distinction.

TCAT Livingston, county educational partners, industry partners, and employers on including work ethics, soft skills, and employability skills in our courses for dual enrollment students. A copy of the Upper Cumberland Work Ethic Distinction Standards and portfolio is in Appendix H.

As the lead institution, TCAT's program director for the GIVE 2.0 Grant will coordinate with all partners to ensure grant stipulations and record requirements are being met. The indirect funds have been reserved to cover the costs of implementation and administration of the grant. Information gathered for the duration of the program will be analyzed and evaluated to determine future adjustments and planning for the program.

## **Section 5: Sustainability**

The Tennessee College of Applied Technology—Livingston has been in existence since 1966 and continues to maintain strong enrollments, completion rate, and placement rates for students. The mission of the college is to be the premier supplier of workforce development the Upper Cumberland region and in the state of Tennessee. TCAT—Livingston's 2019-20 completion rate was 75%, placement rate was 87%, and licensure rate was 97%.

The demand for TCAT Livingston's Advanced Manufacturing programs of study is strong each year and continued growth is expected. The addition of the robotics equipment at all three campuses will

strengthen the student educational experience in technical activities and projects and allow additional students to work on programming. The collaborative robots will allow dual enrollment students to work with the latest technology in robotics. The collaborative robots are automated solutions to allow the robot and humans to work interactively in the same workspace. The collaborative robot is designed to work with people and reduce workspace in a safe working environment.

Dual enrollment has been a major part of the offerings at TCAT Livingston since 1980 with the passage of the Comprehensive Education Act. TCAT Livingston averages over 1000 high school student dually enrolled each year from 6 counties in the Upper Cumberland. The addition of the adjunct instructor at TCAT Livingston will allow more students to participate in dual enrollment Advanced Manufacturing courses. TCAT Livingston has a long history and has been a successful Career & Technical Education post-secondary provider in the Upper Cumberland region for several years. TCAT Livingston is committed to provide relevant workforce training in advanced manufacturing and other industry sectors as dictated by local, regional, and state economic development data on in demand, high skill, and high wage occupations.

TCAT Livingston is committed to maintaining the program's equipment and providing classroom space for dual enrollment students while the need exists.

The business and industry partners are well established in the Upper Cumberland and the economic climate has rebounded from COVID, and this has resulted in a strong job market for advanced manufacturing jobs. Each of the employer partners is committed to being involved in regional communities and have a strong commitment to building a strong workforce that supports the needs of all employers and future employers in the Upper Cumberland Region. Each employer is committed to the success of the grant and supporting all work-based learning activities. Employer partners will continue to serve on the Advisory Board for the advanced manufacturing program after the grant period and will work to further the success of the training provided.

TCAT Livingston and each of the industry and education partners will continue the partnership after the grant period ends through the advisory board. TCAT Livingston, Clay County, Jackson County, Overton County, Pickett County, Putnam County and White County with the industry, and community partners will have the opportunity to review the program and the data to evaluate the success of the program. The program will be reviewed by the advisory board with input from all partners to seek continuous improvement in the program as needed.

The GIVE 2.0 Advisory Board will identify workforce needs related to the program and develop curriculum to address any skills gaps. The utilization of programs such as TN Lottery, TN Promise, and TN Reconnect will also provide support to students enrolling in post-secondary programs. The completion of post-secondary training will provide students with opportunities in high demand occupations for a solid career in a high skill, high wage jobs.

TCAT Livingston and the 6 county educational partners will pursue additional funding opportunities to assist in growing and improving the advanced manufacturing program, in order to, increase student options and enrollment. TCAT Livingston is committed to the efforts of the governor and his administration in improving the economic status of all rural communities in the state.

## **Section 6: Economic Status Acknowledgement**

The Appalachian Regional Commission (ARC) has determined the economic status for FY 2022.

Clay County has been categorized as DISTRESSED.

Jackson County has been categorized as AT-RISK.

Overton County has been categorized as Transitional.

Pickett County has been categorized as AT-RISK.

Putnam County has been categorized as Transitional.

White County has been categorized as Transitional.

(See appendix F)

Grant Budget				
GIVE 2.0 Competitive Grant (Robotics and Automation in the Upper Cumberland)				
The grant budget line-item amounts below shall be applicable only to expenses incurred during the following				
Applicable Period:                      Begin: 11/15/21                      End: 05/15/24				
POLICY 03 Object Line-item Reference	EXPENSE OBJECT LINE-ITEM Category <sup>1</sup>	GRANT CONTRACT	GRANTEE PARTICIPATION	TOTAL PROJECT
1, 2	Salaries, Benefits, and Taxes	\$ 370,000.00		\$370,000.00
4, 15	Professional Fee, Grant & Award	\$0.00		\$0.00
5, 6, 7, 8, 9, 10	Supplies, Telephone, Postage & Shipping Occupancy, Equipment Rental & Maintenance, Printing & Publications	\$15,000.00		\$15,000.00
11, 12	Travel, Conferences & Meetings	\$159,000.00		\$159,000.00
13	Interest			
14	Insurance			
16	Specific Assistance to Individuals			
17	Depreciation			
18	Other Non-Personnel	\$5,000.00		\$5,000.00
20	Capital Purchase	\$371,000.00		\$371,000.00
22	Indirect Cost	\$80,000.00		\$80,000.00
24	In-Kind Expense			
25	<b>GRAND TOTAL</b>	<b>\$ 1,000,000.00</b>		<b>\$1,000,000.00</b>

**GIVE 2.0 GRANT ROBOTICS AND AUTOMATION IN THE UPPER CUMBERLAND EQUIPMENT LIST**  
**TCAT Livingston-Clay County, Jackson County, Overton County, Pickett County, Putnam County, White County**

**EQUIPMENT**

Fanuc Collaborative Robots (3)	\$162,000.00
Large Manufacturing Cell with Fanuc Robot	\$143,000.00
Fanuc Robots ER 4-A (2)	\$ 66,000.00
<b>Subtotal</b>	<b>\$371,000.00</b>

**TRANSPORTATION**

Fuel and Mileage for Bus Transportation      (.47 cents per mile)	\$95,000.00
Bus Driver for Transporting Students      (Drive time and sitting time)	\$64,000.00
<b>Subtotal</b>	<b>\$ 159,000.00</b>

**PERSONNEL**

Workforce/ Work Based Learning Coordinator Salary	\$128,000.00
WBL Coordinator Benefits	\$52,000.00
Instructor Salary	\$138,000.00
Instructor Benefits	\$52,000.00
<b>Subtotal</b>	<b>\$370,000.00</b>

**Marketing and Meetings**

Marketing and Promotion (Flyers, banners, work ethic distinction recognition)	\$5,000.00
<b>Subtotal</b>	<b>\$5,000.00</b>

**SUPPLIES**

Textbooks (Amatrol curriculum software)	\$7,500.00
Supplies (Screwdrivers, pliers, strippers, allen wrenches, ratchet sets) (Cordless drills, tool boxes, )	\$7,500.00
<b>Subtotal</b>	<b>\$15,000.00</b>

<b>Indirect Cost</b>	<b>\$80,000.00</b>
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<b>Total</b>	<b>\$1,000,000.00</b>
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**GIVE 2.0 Program Notice of Intent to Submit**

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**Lead Entity:** Tennessee College of Applied Technology—Livingston

**Program Director/Co-Director:** Jeffrey M. Slagle/Dr. Myra West

**Program Director/Co-Director Email Addresses:**

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**Name of Higher Education Institution (Fiscal Agent):**

Tennessee College of Applied Technology—Livingston

**Title of Proposed Project:**

Robotics and Automation In the Upper Cumberland

**Proposed Partners:**

Tennessee College of Applied Technology Livingston

Cookeville-Putnam County Chamber of Commerce

Clay County School System

Automation Tool Company

Jackson County School System

TTI Floorcare

Overton County School System

Aphena Pharmaceuticals

Pickett County School System

Hutchinson FTS, Inc.

Putnam County School System

White County School System

Highlands Economic Partnership—Workforce and Education—Pathways

**Proposed Funding Requested: \$1,000,000**



## Appendix D

### GIVE 2.0 Grant Timeline – Robotics and Automation in the Upper Cumberland

Month	Activity	Outcome Measure
December 2021	Begin procurement of equipment/Advertise for instructor/Advertise for Workforce/Work Based Learning Coach	Number of applicants
January 2022	Continue to order and receive equipment/Interview for Instructor and Workforce/WBL Coach	Equipment received/interview of applicants and successful hire of positions.
February 2022	Receiving of equipment/Recruit Dual Enrollment Students/Highlands Interview Boot Camp	Equipment received/Track number of students at Highlands Interview Boot Camp
March 2022	Recruit Dual Enrollment students/Program of Study Fairs at all high schools/Begin Registration of Dual Enrollment students	Track the number of DE students enrolling in advanced manufacturing at all high schools
April 2022	Registration of D.E. students at all high schools	Track the number of DE students enrolling.
May 2022	Graduation and Work Ethics Recognition Event/Advisory Board Meeting	Track Work Ethics awarded/Track attendance and minutes Advisory Board Meeting
June 2022	Teacher Externship/Student Internships	Track teachers and students participating.
July 2022	Teacher Externship/Student Internships	Track teacher and students participation.
August 2022	Begin Dual Enrollment Classes/Recruit WBL Interns and get placements.	Track DE Students enrolled
September 2022	Student tours of TCAT Livingston Campus/ Recruit WBL Interns and get placements.	Track Students participating in tour.
October 2022	Teacher Externship/Industry Visit Day/ Recruit WBL Interns and get placements.	Track teachers participating and compile quality of program survey data.
November 2022	Advisory Board Meeting Recruit WBL Interns and get placements.	Document minutes and track attendance.
December 2022	Highlands 8 <sup>th</sup> Grade Career Fair	Track number of students attending.

January 2023	Enrollment of Dual Enrollment and Adult Students/ Recruit WBL Interns and get placements.	Track enrollment of DE students and Adult students.
February 2023	Tour of TCAT Livingston/Highlands Interview Boot Camp/ Recruit WBL Interns and get placements.	Track student attendance on tour and at interview boot camp.
March 2023	Recruitment of D.E. Students for Fall 2024/Interview Boot Camp/ Recruit WBL Interns and get placements.	Track enrollment and participation in WBL.
April 2023	Registration of D.E. Students for Fall 2024/Site visits for WBL Placements.	Track student enrollment and compare to last year. Document student/employer evaluations.
May 2023	Graduation and Work Ethics Recognition Event/Advisory Board Meeting	Track Work Ethics awarded/Track attendance and minutes Advisory Board Meeting
June 2023	Teacher Externship/Student Internships/Site visits for WBL.	Track teachers and students participating
July 2023	Teacher Externship/Student Internships/Site Visits for WBL.	Track teachers and students participating
August 2023	Begin Dual Enrollment Classes/Recruit WBL Interns and get placements.	Track DE Students enrolled
September 2023	Student tours of TCAT Livingston Campus/ Recruit WBL Interns and get placements.	Track Students participating in tour/and WBL intern placements.
October 2023	Teacher Externship/Industry Visit Day/ Recruit WBL Interns and get placements.	Track teachers participating and compile quality of program survey data.
November 2023	Advisory Board Meeting Recruit WBL Interns and get placements.	Document minutes and track attendance.
December 2023	Highlands 8 <sup>th</sup> Grade Career Fair	Track number of students attending.
January 2024	Enrollment of Dual Enrollment and Adult Students/ Recruit WBL Interns and get placements.	Track enrollment of DE students and Adult students.
February 2024	Tour of TCAT Livingston/Highlands Interview Boot Camp/ Recruit WBL Interns and get placements.	Track student attendance on tour and at interview boot camp.
March 2024	Recruitment of D.E. Students for Fall 2024/Interview Boot Camp/ Recruit WBL Interns and get placements.	Track enrollment and participation in WBL.
April 2024/May 2024	Registration of D.E. Students for Fall 2024/Site visits for WBL Placements./Graduation/Work Ethics Recognition/Advisory Board Meeting	Track Work Ethics awarded/Track attendance and minutes Advisory Board Meeting

### **Position Title: Workforce/Work-Based Learning Coach**

**Job Description:** The Workforce/Work-Based Learning Coach provides support to instructional staff by connecting activities between schools and work-based learning. The coach will establish and maintain relationships with multiple businesses, employers, industry, workforce development agencies, and chambers of commerce. The coach will also coordinate workforce and work-based learning programs offered through TCAT Livingston and the following school systems: Clay, Jackson, Overton, Pickett, Putnam, and White.

### **Minimum Qualifications:**

- Bachelor's degree from an Accredited Institution with emphasis on business, education, or related field preferred
- Minimum of 3 year's work experience in career & technical education, business, or related field preferred
- Must possess the organizational and computer skills necessary and demonstrate proficiency in oral and written communication needed to be effective.
- Must have the ability to establish and maintain effective interpersonal working relationship with students, faculty, staff, general public, and business and industry.
- Must possess a high standard of personal and professional ethics and show evidence of good character, mature attitude, and stable personality.

### **General Duties**

1. Assist the project director and post-secondary representatives in defining needs, developing plans, establishing goals, and formulating policies and procedures for program development.
2. Recruit new businesses and organizations to provide quality work-based and school-based learning opportunities for students; serve as a liaison between the schools and business and industry.
3. Maintain lists of businesses/employers willing to participate in work-based learning.
4. Assist in screening, interviewing, and selecting qualified students for work-based learning experiences.
5. Coordinate internships, Job Shadowing, Service Learning, and other Work-Based Learning programs offered through TCAT Livingston that relate to the program.
6. Contact business and industry regarding their employment and training needs and assist with curriculum development and integration of technical and academic education.
7. Assist with career development of students through career clusters, extended learning opportunities, and employability skills, such as resume writing and interviewing skills.
8. Maintain a current Advisory board listing which includes contact information. Supervise and coordinate Advisory Board Meetings. Keep on file current records of meetings.
9. Other duties as assigned by the director.

10. Maintain and submit appropriate records, reports, and other documents required by the grant.

Salary: Salary is commensurate with experience, qualifications, and the Tennessee Board of Regents guidelines.

**Position Title: Advanced Manufacturing Education Adjunct Instructor**

**Job Description:** The Advanced Manufacturing Education Instructor will instruct dual enrollment students in theory and technical skills on site at TCAT Livingston. This position instructs dual enrollment high school students from 4 counties in an advancement manufacturing curriculum and a shop/lab with technical training equipment.

**Minimum Qualifications:**

- High School Diploma or equivalent. Technical Diploma, Associates Degree or equivalent higher education/training preferred.
- Must have a minimum of 3 to 5 years of related work experience. Manufacturing experience a plus.
- Must be proficient in basic electronics and electricity and be knowledgeable in hydraulics, pneumatics, programmable logic controllers (PLC), robotics, instrumentation, and preventative maintenance.
- Robotics industry certification preferred: Fanuc, Yaskawa, Motoman, and/or ABB Robotics.
- Willingness to obtain Instructor Certification to teach Industry Certifications for Robotics.
- Must possess industry experience with robotics operations and maintenance.
- Must possess the organizational and communication skills necessary to be an effective instructor.
- Must commit to remain current in the Robotics field and maintain program accrediting status.
- Must have ability to interact with high school students.
- Must show evidence of good character, mature attitude and stable personality.
- Must possess computer skills and ability to utilize technology to enhance teaching.

**General Duties:**

1. Provide classroom/lab instruction to high school students to prepare them for continuing their training in a Robotics program at a post-secondary institution or to enter the workforce.
2. Monitor, grade, and evaluate individual student's progress.
3. Maintain appropriate records and submit timely reports.
4. Assist in recruitment and placement of students.
5. Maintain good public relations with business and industry.

Salary: Salary is commensurate with experience, qualifications, and the Tennessee Board of Regents guidelines

# Appendix F

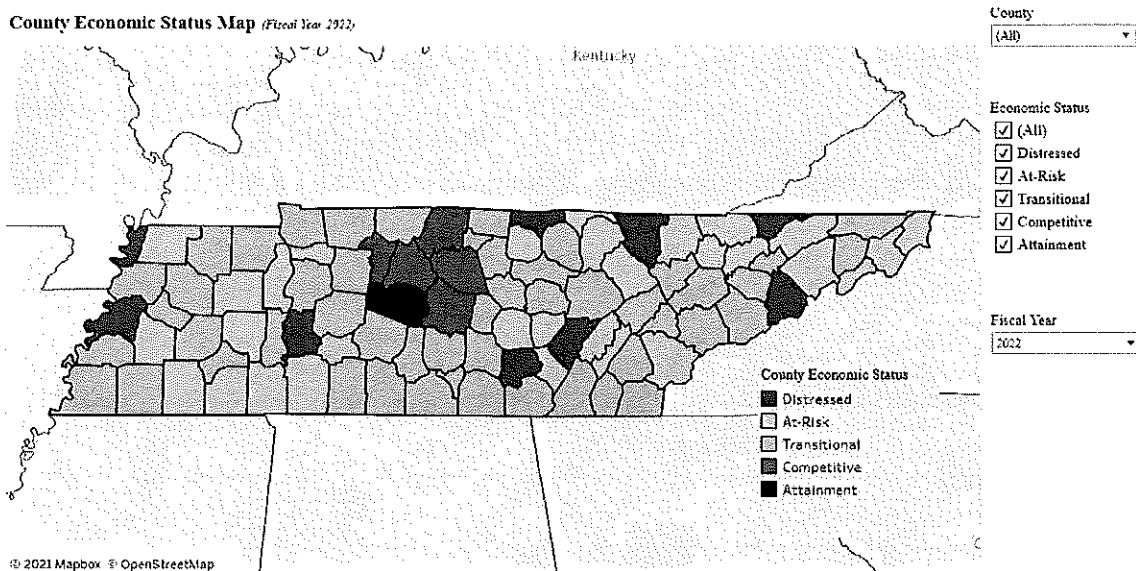
## Tennessee

### Distressed Counties 2022

Distressed counties rank among the 10 percent most economically distressed counties in the nation. Each year, the Appalachian Regional Commission (ARC) prepares an index of county economic status for every county in the United States. Economic status designations are identified through a composite measure of each county's three-year average unemployment rate, per capita market income, and poverty rate. Based on these indicators, each county is then categorized as distressed, at-risk, transitional, competitive or attainment.

The dashboard below illustrates the current economic status for all 95 counties in Tennessee as measured by the ARC.

The 9 distressed counties in Tennessee include: Lake, Lauderdale, Perry, Clay, Grundy, Bledsoe, Scott, Hancock, and Cocke.

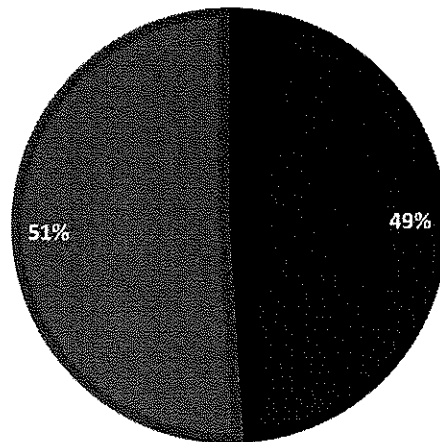


**Student population projections**

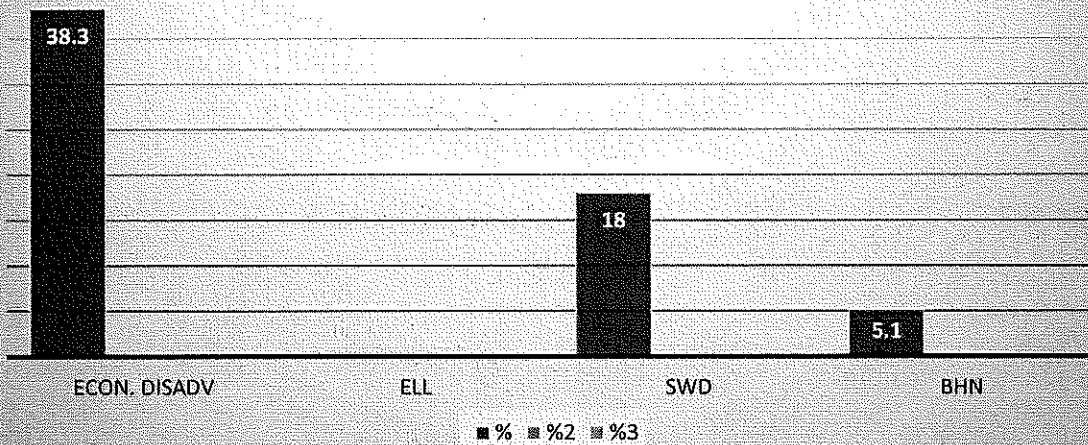
# CLAY COUNTY GENDER 2021-2022

## 337 ENROLLED

■ Male ■ Female ■



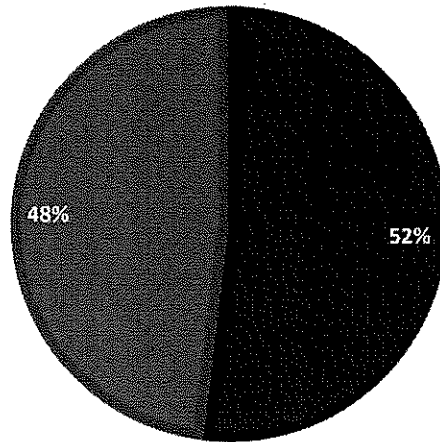
## Clay County Student Demographics



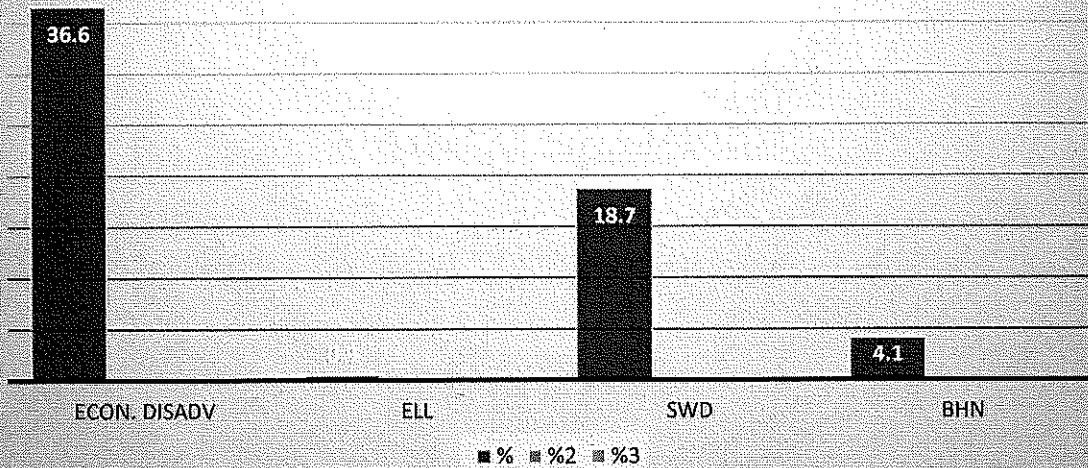
# JACKSON COUNTY GENDER 2021-2022

## 444 ENROLLED

■ Male ■ Female ■



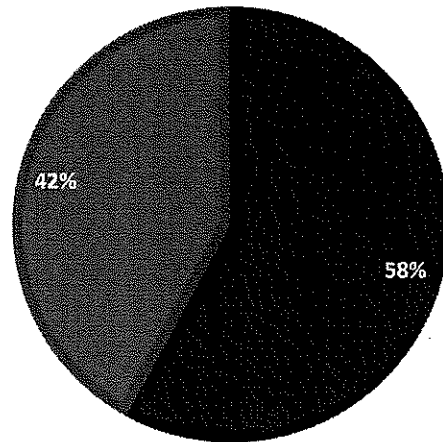
## Jackson County Student Demographics



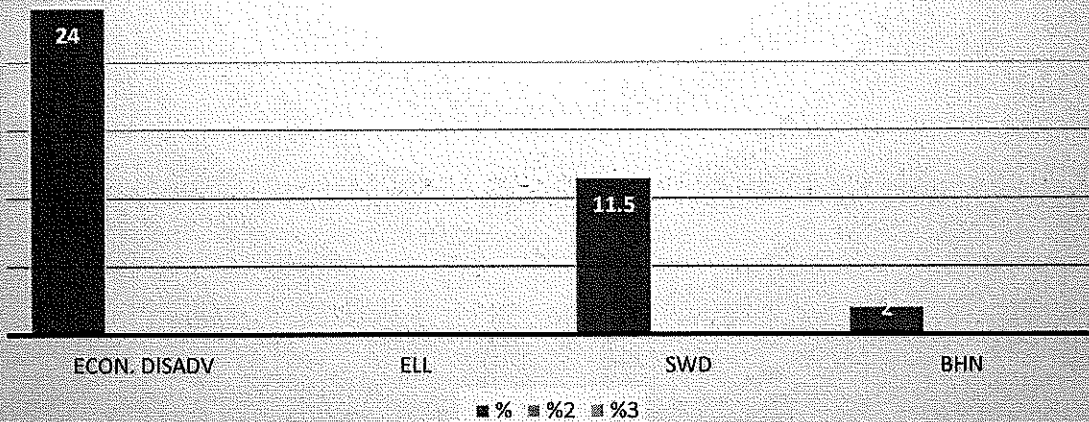


# PICKETT COUNTY GENDER 2021-2022 211 ENROLLED

■ Male ■ Female ■

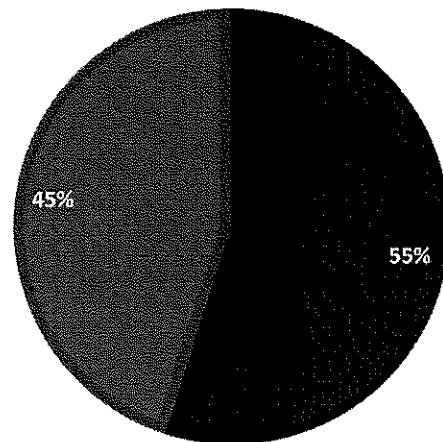


## Pickett County Student Demographics

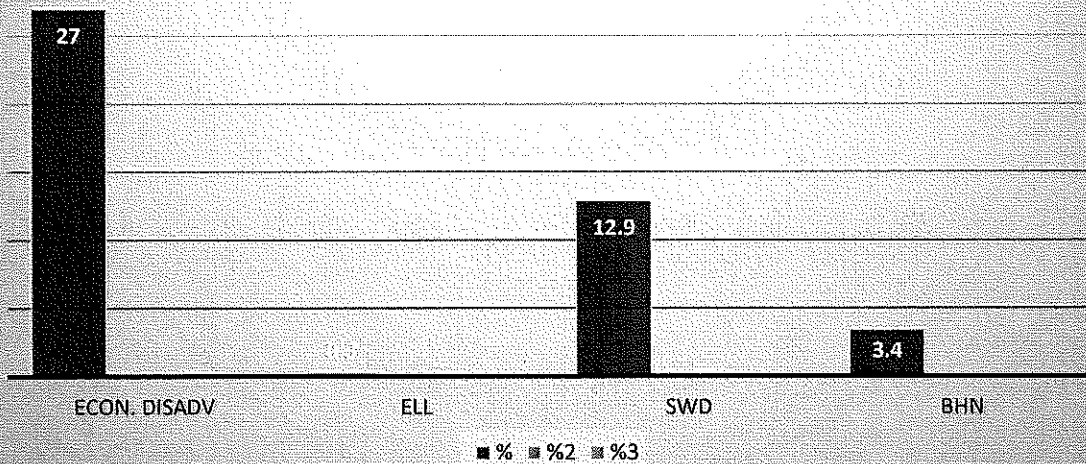


## LIVINGSTON ACADEMY GENDER 2021-2022 944 ENROLLED

■ Male ■ Female ■

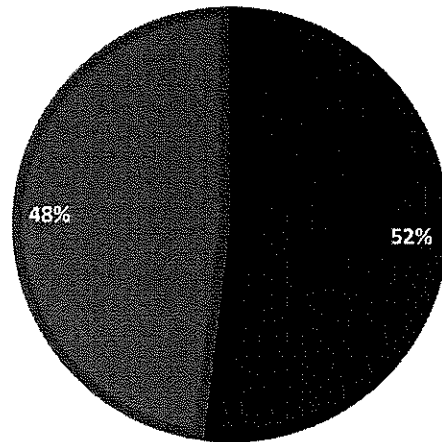


## Livingston Academy Student Demographics

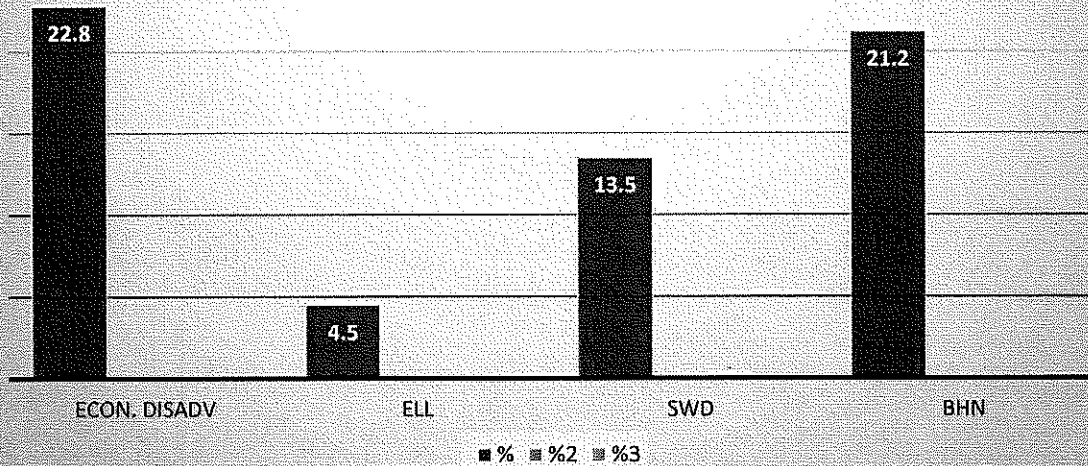


## COOKEVILLE HIGH SCHOOL GENDER 2021-2022 2321 ENROLLED

■ Male ■ Female ■

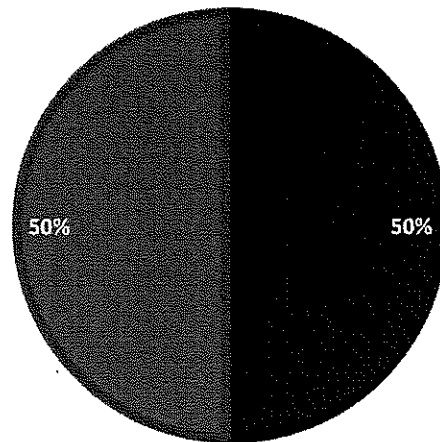


## Cookeville High School Student Demographics

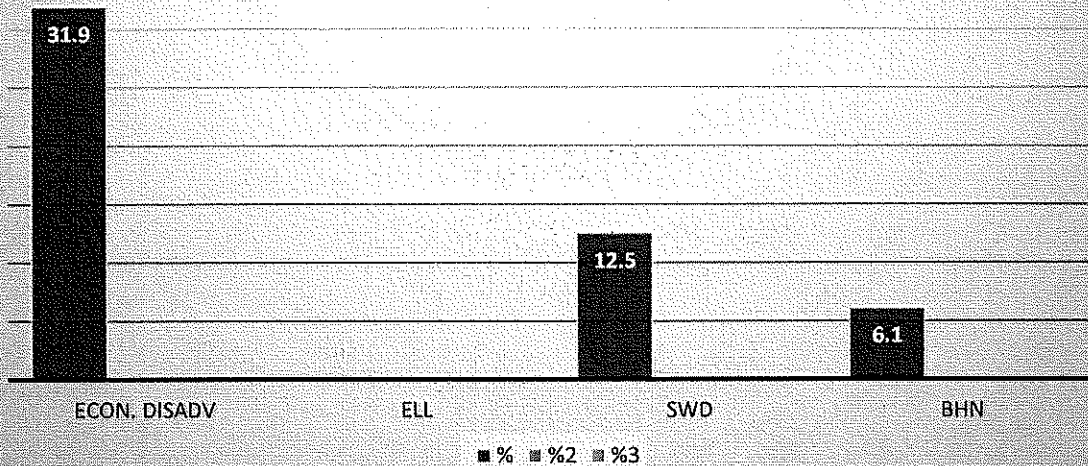


# WHITE COUNTY HIGH SCHOOL GENDER 2021-2022 1168 ENROLLED

■ Male ■ Female ■



## White County High School Student Demographics



## **Memorandum's of Understanding**

## **GIVE Memorandum of Understanding**

### **Memorandum of Understanding**

Between

Tennessee College of Applied Technology Livingston  
and

Clay County Schools; Jackson County Schools; Overton County Schools;  
Pickett County Schools; Putnam County Schools; White County Schools  
and

Cookeville-Putnam County Chamber of Commerce

This Memorandum of Understanding ("MOU") sets the terms and understanding between Tennessee College of Applied Technology Livingston ("TCAT Livingston"); Clay County Schools, Jackson County Schools, Overton County Schools, Pickett County Schools, Putnam County Schools, White County Schools ("Upper Cumberland Educational Partners"); and the Cookeville-Putnam County Chamber of Commerce to establish the terms and conditions under which the Governor's Investment in Vocational Education ("GIVE") grant program will function.

#### **Purpose**

This MOU will provide an understanding of the roles and responsibilities of each partner and how their efforts will develop long term partnerships. The partnership outlined in this memorandum will support efforts to develop an employer-driven career path that can be obtained through higher education programs.

#### **Reporting**

The TCAT Livingston Program Director and GIVE Advisory Board will evaluate effectiveness and adherence to the agreement. The Advisory Board will meet twice per year, or more often if needed, to relay progress or issues related to program implementation. During this time, TCAT Livingston, Upper Cumberland Educational Partners, and our industry and community partners will have the opportunity to share data necessary to evaluate the success of the program. Program requirements will be continuously adjusted accordingly.

#### **Duration**

This MOU shall become effective beginning with the execution of the GIVE grant contract and will remain in effect for a period of no less than 30 months. The MOU may be modified or extended by mutual consent of the partners. In the absence of mutual agreement by the authorized officials from TCAT Livingston, Upper Cumberland Educational Partners, and the Cookeville-Putnam County Chamber of Commerce, an individual partner can terminate their participation by giving a written notice of intent to terminate.

#### **Duties of Each Partner**

This section will describe the responsibilities as agreed upon for each partner.

##### **Responsibilities of TCAT Livingston:**

- Serve as the lead entity of the grant;
- Coordinate all grant activities;
- Manage partner participation;
- Complete any reports necessary to administer the grant;
- Monitor and audit partnership contracts;
- Other responsibilities to support grant activity.

##### **Responsibilities of Upper Cumberland Educational Partners:**

- Recruit and refer students to the program;
- Communicate with partners on program development and progress;
- Develop industry partnerships within the community;
- Provide space for advisement.

##### **Responsibilities of Cookeville-Putnam County Chamber of Commerce:**

- Create workforce partnerships with local industries requiring high demand skills;
- Match current job openings with the program skills development;
- Communicate with partners on program development and progress;
- Provide students with career advancement opportunities training;
- Document student and workforce relationship success.

### **Contact Information**

Tennessee College of Applied Technology – Livingston

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Program Director

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(931) 823-5525

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meldridge@clayedu.com

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Kristy Brown

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kristybrown@jacksoncoschools.com

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Dr. Donnie Holman

Director of Schools

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donnieholman@oc-sd.com

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Diane Elder

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(931) 864-3123

diane.elder@pickettk12.net

Putnam County Schools

Corby King

Director of Schools

1400 E. Spring Street

Cookeville, TN 38506

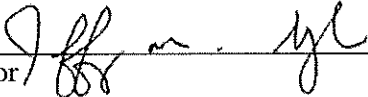
(931) 526-9777

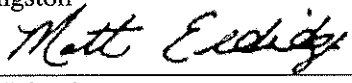
kingc11@pcsstn.com


White County Schools  
Kurt Dronebarger  
Director of Schools  
576 Hale Street  
Sparta, TN 38583  
(931) 836-2229  
kurt.dronebarger@whitecoschools.net


Cookeville-Putnam County Chamber of Commerce  
1 West 1<sup>st</sup> Street  
Cookeville, TN 38501  
(931) 526-2211

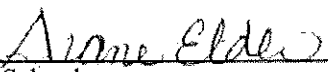
The parties in this MOU through their authorized representatives confirm their acceptance on the days and dates set out below, and certify that they have read, understood, and agreed to the terms and conditions of this MOU.

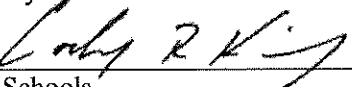
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Program Director  
TCAT Livingston

Signature  Date: 9/13/2021  
Director of Schools  
Clay County Schools

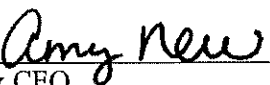
Signature  Date: 9/14/2021  
Director of Schools  
Jackson County Schools

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Director of Schools  
Overton County Schools

Signature  Date: 9/13/2021  
Director of Schools  
Pickett County Schools

Signature  Date: 9/10/2021  
Director of Schools  
Putnam County Schools

Signature  Date: 9/09/2021  
Director of Schools  
White County Schools

Signature  Date: 9/10/2021  
President & CEO  
Cookeville-Putnam County Chamber of Commerce



## **GIVE Memorandum of Understanding**

### **Memorandum of Understanding**

Between

Tennessee College of Applied Technology Livingston  
and

Clay County Schools; Jackson County Schools; Overton County Schools;  
Pickett County Schools; Putnam County Schools; White County Schools

and

Highlands Economic Partnership *[under the umbrella of]* Cookeville-Putnam County Chamber of Commerce

This Memorandum of Understanding ("MOU") sets the terms and understanding between Tennessee College of Applied Technology Livingston ("TCAT Livingston"); Clay County Schools, Jackson County Schools, Overton County Schools, Pickett County Schools, Putnam County Schools, White County Schools ("Upper Cumberland Educational Partners"); and the Highlands Economic Partnership ("HEP") *[under the umbrella of]* Cookeville-Putnam County Chamber of Commerce to establish the terms and conditions under which the Governor's Investment in Vocational Education ("GIVE") grant program will function.

#### **Purpose**

This MOU will provide an understanding of the roles and responsibilities of each partner and how their efforts will develop long term partnerships. The partnership outlined in this memorandum will support efforts to develop an employer-driven career path that can be obtained through higher education programs.

#### **Reporting**

The TCAT Livingston Program Director and GIVE Advisory Board will evaluate effectiveness and adherence to the agreement. The Advisory Board will meet twice per year, or more often if needed, to relay progress or issues related to program implementation. During this time, TCAT Livingston, Upper Cumberland Educational Partners, and our industry and community partners will have the opportunity to share data necessary to evaluate the success of the program. Program requirements will be continuously adjusted accordingly.

#### **Duration**

This MOU shall become effective beginning with the execution of the GIVE grant contract and will remain in effect for a period of no less than 30 months. The MOU may be modified or extended by mutual consent of the partners. In the absence of mutual agreement by the authorized officials from TCAT Livingston, Upper Cumberland Educational Partners, and the HEP, an individual partner can terminate their participation by giving a written notice of intent to terminate.

#### **Duties of Each Partner**

This section will describe the responsibilities as agreed upon for each partner.

##### **Responsibilities of TCAT Livingston:**

- Serve as the lead entity of the grant;
- Coordinate all grant activities;
- Manage partner participation;
- Complete any reports necessary to administer the grant;
- Monitor and audit partnership contracts;
- Other responsibilities to support grant activity.

##### **Responsibilities of Upper Cumberland Educational Partners:**

- Recruit and refer students to the program;
- Communicate with partners on program development and progress;
- Develop industry partnerships within the community;
- Provide space for advisement.

**Responsibilities of Highlands Economic Partnership:**

- Create workforce partnerships with local industries requiring high demand skills;
- Match current job openings with the program skills development;
- Communicate with partners on program development and progress;
- Provide students with career advancement opportunities training;
- Document student and workforce relationship success.

**Contact Information**

Tennessee College of Applied Technology – Livingston

Jeff Slagle

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Diane Elder

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Putnam County Schools

Corby King

Director of Schools

1400 E. Spring Street

Cookeville, TN 38506

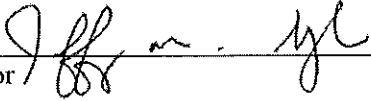
(931) 526-9777

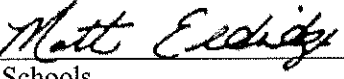
kingc11@pcsstn.com

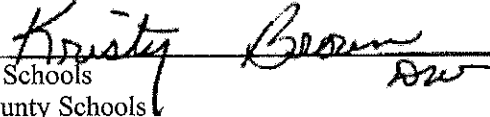
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(931) 836-2229  
kurt.dronebarger@whitecoschools.net

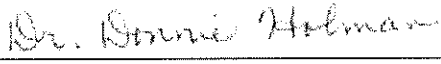
Highlands Economic Partnership  
1 West 1<sup>st</sup> Street  
Cookeville, TN 38501  
(931) 526-2211


The parties in this MOU through their authorized representatives confirm their acceptance on the days and dates set out below, and certify that they have read, understood, and agreed to the terms and conditions of this MOU.

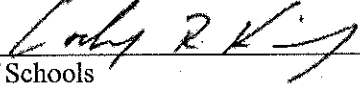
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Program Director  
TCAT Livingston

Signature  Date: 9/13/2021  
Director of Schools  
Clay County Schools

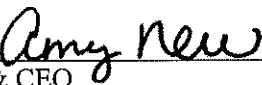
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Director of Schools  
Jackson County Schools

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Director of Schools  
Overton County Schools

Signature  Date: 9/13/2021  
Director of Schools  
Pickett County Schools

Signature  Date: 9/10/2021  
Director of Schools  
Putnam County Schools

Signature  Date: 9/09/2021  
Director of Schools  
White County Schools

Signature  Date: 9/10/2021  
President & CEO  
Highlands Economic Partnership

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## **GIVE 2.0 Memorandum of Understanding**

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### **Memorandum of Understanding**

**Between**

**Tennessee College of Applied Technology Livingston**

**and**

**Clay County Schools; Jackson County Schools; Overton County Schools; Pickett County Schools; Putnam  
County Schools; White County Schools**

**and**

**Livingston-Overton County Chamber of Commerce**

This Memorandum of Understanding (MOU) sets the terms and understanding between Tennessee College of Applied Technology Livingston (TCAT Livingston), the Clay County Schools, Jackson County Schools, Overton County Schools, Pickett County Schools, Putnam County Schools, White County Schools ("Upper Cumberland Educational Partners"); and the Livingston-Overton County Chamber of Commerce to establish the terms and conditions under which the Governor's Investment in Vocational Education 2.0 (GIVE 2.0) grant program will function.

#### **Purpose**

This MOU will provide an understanding of the roles and responsibilities of each partner and how their efforts will develop long term partnerships. The partnership outlined in this memorandum will support efforts to develop an employer-driven career path that can be obtained through higher education programs.

#### **Reporting**

The TCAT Livingston Program Director and GIVE 2.0 advisory board will evaluate effectiveness and adherence to the agreement. The advisory board will meet twice per year, or more often if needed, to relay progress or issues related to program implementation. During this time, TCAT Livingston, Upper Cumberland Educational Partners, and our industry and community partners will have the opportunity to share data necessary to evaluate the success of the program. Program requirements will be continuously adjusted accordingly.

#### **Duration**

This MOU shall become effective beginning with the execution of the GIVE 2.0 grant contract and will remain in effect for a period of no less than 30 months. The MOU may be modified or extended by mutual consent of the partners. In the absence of mutual agreement by the authorized officials from TCAT Livingston, Upper Cumberland Educational Partners, and the Livingston-Overton County Chamber of Commerce, an individual partner can terminate their participation by giving a written notice of intent to terminate.

### **Duties of each partner**

This section will describe the responsibilities as agreed upon for each partner.

#### **Responsibilities of TCAT Livingston:**

- Serve as the lead entity of the grant;
- Coordinate all grant activities;
- Provide program instructor;
- Manage partner participation;
- Complete any reports necessary to administer the grant;
- Monitor and audit partnership contracts;
- Other responsibilities to support grant activity;
- Provide classroom space and instructional equipment;
- Provide instructional facility.

#### **Responsibilities of Upper Cumberland Educational Partners:**

- Recruit and refer students to the program;
- Communicate with partners on program development and progress;
- Develop industry partnerships within the community;
- Provide space for advisement.
- Provide instructional space as agreed.

#### **Responsibilities of Livingston-Overton County Chamber of Commerce:**

- Create workforce partnerships with local industries requiring in demand skills;
- Match current job openings with the program skills development;
- Communicate with partners on program development and progress;
- Provide students with career advancement opportunities training;
- Document student and workforce relationship success.

### **Contact Information**

Tennessee College of Applied Technology – Livingston

Jeffrey M. Slagle

Program Director

740 Hi Tech Drive

Livingston, TN 38570

(931) 823-5525

[jeffrey.slagle@tcatlivingston.edu](mailto:jeffrey.slagle@tcatlivingston.edu)

Livingston/Overtown County Chamber of Commerce

Shannon Cantrell

CEO

222 E. Main Street

Livingston, TN 38570

(931) 823-6421


chamber@twlakes.net

The parties to this MOU through their authorized representatives confirm their acceptance on the days and dates set out below, and certify that they have read, understood, and agreed to the terms and conditions of this MOU.

Signature:  Date: 9/15/2021

Program Director

TCAT Livingston

Signature:  Date: 9/15/2021

CEO Livingston Overtown County Chamber of Commerce

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## **GIVE 2.0 Memorandum of Understanding**

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### **Memorandum of Understanding**

#### **Between**

**Tennessee College of Applied Technology Livingston**

#### **and**

**Clay County School System**

**Clay County High School**

This Memorandum of Understanding (MOU) sets for the terms and understanding between Tennessee College of Applied Technology Livingston, the Clay County School System, and Clay County High School to establish the terms and conditions under which the Governor's Investment in Vocational Education 2.0 (GIVE 2.0) grant program will function.

#### **Purpose**

This MOU will provide an understanding of the roles and responsibilities of each partner and how their efforts will develop long term partnerships.

The partnership outlined in this memorandum will support efforts to develop an employer-driven career path that can be obtained through higher education programs. This partnership provides high school students the opportunity to earn both TCAT (clock hours) and high school graduation credits simultaneously upon successful completion of qualified course(s).

The qualified program/courses are: Advanced Manufacturing Program of Study and courses include industrial maintenance, robotics and automation, mechatronics, and injection molding.

Instructors for the dual enrollment classes shall be subject to the approval of all partners and will adhere to the College policies regarding academic standards and documentation of attendance and grades.

#### **Reporting**

The lead agency, TCAT Livingston, Program Director, and GIVE 2.0 advisory board will evaluate effectiveness and adherence to the agreement. The advisory board will meet twice per year, or more often if needed, to relay progress or issues related to program implementation.

In accordance with the guidelines set forth by the Tennessee Board of Regents (TBR), the Tennessee Higher Education Commission (THEC), and the procedures established by TCAT Livingston reserves the right to schedule an observation of the class by the Program Director at any time to ensure that college-level outcomes are met.

**Duration**

This MOU shall become effective beginning with the execution of the GIVE 2.0 grant contract and will remain in effect for a period of no less than 30 months. The MOU may be modified or extended by mutual consent of the partners. In the absence of mutual agreement by the authorized officials from TCAT Livingston, Clay County School System, and Clay County High School an individual partner can terminate their participation by giving a written notice of intent to terminate.

**Duties of each partner**

This section will describe the responsibilities as agreed upon for each partner.

**Responsibilities of TCAT Livingston:**

- Serve as the lead entity of the grant;
- Coordinate all grant activities;
- Provide program instructor;
- Manage partner participation;
- Complete any reports necessary to administer the grant;
- Monitor and audit partnership contracts;
- Other responsibilities to support grant activity;
- Provide classroom space and instructional equipment;
- Provide instructional facility.

**Responsibilities of Clay County School System and Clay County High School:**

- Recruit and refer students to the program;
- Communicate with partners on program development and progress;
- Develop industry partnerships within the community;
- Provide space for advisement.

**Contact Information**

Tennessee College of Applied Technology – Livingston

Jeffrey M. Slagle

Program Director

740 Hi Tech Drive

Livingston, TN 38570

(931) 823-5525

Jeffrey.slagle@TCATLivingston.edu



Clay County School System

Matt Eldridge

Director of Schools

520 Brown Street

Celina, TN 38551

(931) 243-3310

[meldridge@clayedu.com](mailto:meldridge@clayedu.com)

Kim Upton

CTE Coordinator

520 Brown Street

Celina, TN 38551

(931) 243-3310

[kupton@clayedu.com](mailto:kupton@clayedu.com)

Clay County High School

Teia Arms

Principal

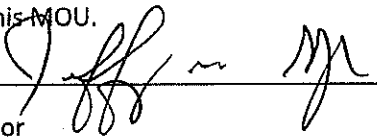
860 Clay County Hwy.

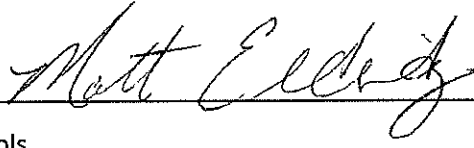
Celina, TN 38551

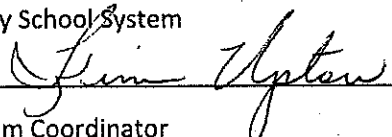
(931) 243-2340

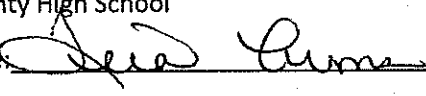
[tarms@clayedu.com](mailto:tarms@clayedu.com)

The parties to this MOU through their authorized representatives confirm their acceptance on the days and dates set out below, and certify that they have read, understood, and agreed to the terms and conditions of this MOU.

Signature:  Date: 9/07/2021  
Program Director

TCAT Livingston  
Signature:  Date: 8-30-21  
Director of Schools

Clay County School System  
Signature:  Date: 8-30-21  
CTE Program Coordinator

Clay County High School  
Signature:  Date: 8-30-21  
Principal  
Clay County High School

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## **GIVE 2.0 Memorandum of Understanding**

---

### **Memorandum of Understanding**

**Between**

**Tennessee College of Applied Technology Livingston**

**and**

**Jackson County School System**

**Jackson County High School**

This Memorandum of Understanding (MOU) sets for the terms and understanding between Tennessee College of Applied Technology Livingston, the Jackson County School System, and Jackson County High School to establish the terms and conditions under which the Governor's Investment in Vocational Education 2.0 (GIVE 2.0) grant program will function.

#### **Purpose**

This MOU will provide an understanding of the roles and responsibilities of each partner and how their efforts will develop long term partnerships.

The partnership outlined in this memorandum will support efforts to develop an employer-driven career path that can be obtained through higher education programs. This partnership provides high school students the opportunity to earn both TCAT (clock hours) and high school graduation credits simultaneously upon successful completion of qualified course(s).

The qualified program/courses are: Advanced Manufacturing Program of Study and courses include industrial maintenance, robotics and automation, mechatronics, and injection molding.

Instructors for the dual enrollment classes shall be subject to the approval of all partners and will adhere to the College policies regarding academic standards and documentation of attendance and grades.

#### **Reporting**

The lead agency, TCAT Livingston, Program Director, and GIVE 2.0 advisory board will evaluate effectiveness and adherence to the agreement. The advisory board will meet twice per year, or more often if needed, to relay progress or issues related to program implementation.

In accordance with the guidelines set forth by the Tennessee Board of Regents (TBR), the Tennessee Higher Education Commission (THEC), and the procedures established by TCAT Livingston reserves the right to schedule an observation of the class by the Program Director at any time to ensure that college-level outcomes are met.

**Duration**

This MOU shall become effective beginning with the execution of the GIVE 2.0 grant contract and will remain in effect for a period of no less than 30 months. The MOU may be modified or extended by mutual consent of the partners. In the absence of mutual agreement by the authorized officials from TCAT Livingston, Jackson County School System, and Jackson County High School an individual partner can terminate their participation by giving a written notice of intent to terminate.

**Duties of each partner**

This section will describe the responsibilities as agreed upon for each partner.

Responsibilities of TCAT Livingston:

- Serve as the lead entity of the grant;
- Coordinate all grant activities;
- Provide program instructor;
- Manage partner participation;
- Complete any reports necessary to administer the grant;
- Monitor and audit partnership contracts;
- Other responsibilities to support grant activity;
- Provide classroom space and instructional equipment;
- Provide instructional facility.

Responsibilities of Jackson County School System and Jackson County High School:

- Recruit and refer students to the program;
- Communicate with partners on program development and progress;
- Develop industry partnerships within the community;
- Provide space for advisement.

**Contact Information**

Tennessee College of Applied Technology – Livingston

Jeffrey M. Slagle

Program Director

740 Hi Tech Drive

Livingston, TN 38570

(931) 823-5525

[jeffrey.slagle@TCATLivingston.edu](mailto:jeffrey.slagle@TCATLivingston.edu)

Jackson County School System

Kristy Brown

Director of Schools

711 School Drive

Gainesboro, TN 38562

(931) 268-0119

[kristybrown@jacksoncoschools.com](mailto:kristybrown@jacksoncoschools.com)

Kristy Chaffin

CTE Director

190 Blue Devil Lane

Gainesboro, TN 38562

(931) 268-9771

[kristychaffin@jacksoncoschools.com](mailto:kristychaffin@jacksoncoschools.com)

Jackson County High School

Jason Hardy

Principal

190 Blue Devil Lane

Gainesboro, TN 38562

(931) 268-9711

[jasonhardy@jacksoncoschools.com](mailto:jasonhardy@jacksoncoschools.com)

Signature: \_\_\_\_\_

Program Director

Date: \_\_\_\_\_

TCAT Livingston

Signature: \_\_\_\_\_

Director of Schools

Date: \_\_\_\_\_

Jackson County School System

Signature: \_\_\_\_\_

CTE Director

Date: \_\_\_\_\_

Jackson County School System

Signature: \_\_\_\_\_

Principal

Date: \_\_\_\_\_

Jackson County High School

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## **GIVE 2.0 Memorandum of Understanding**

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Memorandum of Understanding

Between

Tennessee College of Applied Technology Livingston

and

Overton County School System

Livingston Academy

This Memorandum of Understanding (MOU) sets for the terms and understanding between Tennessee College of Applied Technology Livingston, the Overton County School System, and Livingston Academy to establish the terms and conditions under which the Governor's Investment in Vocational Education 2.0 (GIVE 2.0) grant program will function.

### **Purpose**

This MOU will provide an understanding of the roles and responsibilities of each partner and how their efforts will develop long term partnerships.

The partnership outlined in this memorandum will support efforts to develop an employer-driven career path that can be obtained through higher education programs. This partnership provides high school students the opportunity to earn both TCAT (clock hours) and high school graduation credits simultaneously upon successful completion of qualified course(s).

The qualified program/courses are: Advanced Manufacturing Program of Study and courses include industrial maintenance, robotics and automation, mechatronics, and injection molding.

Instructors for the dual enrollment classes shall be subject to the approval of all partners and will adhere to the College policies regarding academic standards and documentation of attendance and grades.

### **Reporting**

The lead agency, TCAT Livingston, Program Director, and GIVE 2.0 advisory board will evaluate effectiveness and adherence to the agreement. The advisory board will meet twice per year, or more often if needed, to relay progress or issues related to program implementation.

In accordance with the guidelines set forth by the Tennessee Board of Regents (TBR), the Tennessee Higher Education Commission (THEC), and the procedures established by TCAT Livingston reserves the right to schedule an observation of the class by the Program Director at any time to ensure that college-level outcomes are met.

**Duration**

This MOU shall become effective beginning with the execution of the GIVE 2.0 grant contract and will remain in effect for a period of no less than 30 months. The MOU may be modified or extended by mutual consent of the partners. In the absence of mutual agreement by the authorized officials from TCAT Livingston, Overton County School System, and Livingston Academy an individual partner can terminate their participation by giving a written notice of intent to terminate.

**Duties of each partner**

This section will describe the responsibilities as agreed upon for each partner.

Responsibilities of TCAT Livingston:

- Serve as the lead entity of the grant;
- Coordinate all grant activities;
- Provide program instructor;
- Manage partner participation;
- Complete any reports necessary to administer the grant;
- Monitor and audit partnership contracts;
- Other responsibilities to support grant activity;
- Provide classroom space and instructional equipment;
- Provide instructional facility.

Responsibilities of Overton County School System and Livingston Academy:

- Recruit and refer students to the program;
- Communicate with partners on program development and progress;
- Develop industry partnerships within the community;
- Provide space for advisement.

**Contact Information**

Tennessee College of Applied Technology – Livingston

Jeffrey M. Slagle

Program Director

740 Hi Tech Drive

Livingston, TN 38570

(931) 823-5525

Jeffrey.slagle@TCATLivingston.edu



Overton County School System

Donnie Holman

Director of Schools

302 Zachary St.

Livingston, TN 38570

(931) 823-1287

[donnieholman@oc-sd.com](mailto:donnieholman@oc-sd.com)

Teresa Johnson

CTE Director

302 Zachary St.

Livingston, TN 38570

(931) 823-1287

[tjohnson4@oc-sd.com](mailto:tjohnson4@oc-sd.com)

Livingston Academy

Richard Melton

Principal

120 Melvin Johnson Dr.

Livingston, TN 38570

(931) 823-5911

[rmelton@oc-sd.com](mailto:rmelton@oc-sd.com)

The parties to this MOU through their authorized representatives confirm their acceptance on the days and dates set out below, and certify that they have read, understood, and agreed to the terms and conditions of this MOU.

Signature: [Signature] Date: 9/10/21  
Program Director

TCAT Livingston

Signature: Dr. Donnie Holman Date: 9-10-21

Director of Schools

Overton County School System

Signature: Beresa W Johnson Date: 9/10/21

CTE Director

Overton County School System

Signature: Richard Melton Date: 9-10-21

Principal

Livingston Academy

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## **GIVE 2.0 Memorandum of Understanding**

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### Memorandum of Understanding

Between

Tennessee College of Applied Technology Livingston

and

Pickett County School System

Pickett County High School

This Memorandum of Understanding (MOU) sets for the terms and understanding between Tennessee College of Applied Technology Livingston, the Pickett County School System, and Pickett County High School to establish the terms and conditions under which the Governor's Investment in Vocational Education 2.0 (GIVE 2.0) grant program will function.

### **Purpose**

This MOU will provide an understanding of the roles and responsibilities of each partner and how their efforts will develop long term partnerships.

The partnership outlined in this memorandum will support efforts to develop an employer-driven career path that can be obtained through higher education programs. This partnership provides high school students the opportunity to earn both TCAT (clock hours) and high school graduation credits simultaneously upon successful completion of qualified course(s).

The qualified program/courses are: Advanced Manufacturing Program of Study and courses include industrial maintenance, robotics and automation, mechatronics, and injection molding.

Instructors for the dual enrollment classes shall be subject to the approval of all partners and will adhere to the College policies regarding academic standards and documentation of attendance and grades.

### **Reporting**

The lead agency, TCAT Livingston, Program Director, and GIVE 2.0 advisory board will evaluate effectiveness and adherence to the agreement. The advisory board will meet twice per year, or more often if needed, to relay progress or issues related to program implementation.

In accordance with the guidelines set forth by the Tennessee Board of Regents (TBR), the Tennessee Higher Education Commission (THEC), and the procedures established by TCAT Livingston reserves the right to schedule an observation of the class by the Program Director at any time to ensure that college-level outcomes are met.

**Duration**

This MOU shall become effective beginning with the execution of the GIVE 2.0 grant contract and will remain in effect for a period of no less than 30 months. The MOU may be modified or extended by mutual consent of the partners. In the absence of mutual agreement by the authorized officials from TCAT Livingston, Pickett County School System, and Pickett County High School an individual partner can terminate their participation by giving a written notice of intent to terminate.

**Duties of each partner**

This section will describe the responsibilities as agreed upon for each partner.

Responsibilities of TCAT Livingston:

- Serve as the lead entity of the grant;
- Coordinate all grant activities;
- Provide program instructor;
- Manage partner participation;
- Complete any reports necessary to administer the grant;
- Monitor and audit partnership contracts;
- Other responsibilities to support grant activity;
- Provide classroom space and instructional equipment;
- Provide instructional facility.

Responsibilities of Pickett County School System and Pickett County High School:

- Recruit and refer students to the program;
- Communicate with partners on program development and progress;
- Develop industry partnerships within the community;
- Provide space for advisement.

**Contact Information**

Tennessee College of Applied Technology – Livingston

Jeffrey M. Slagle

Program Director

740 Hi Tech Drive

Livingston, TN 38570

(931) 823-5525

[jeffrey.slagle@TCATLivingston.edu](mailto:jeffrey.slagle@TCATLivingston.edu)

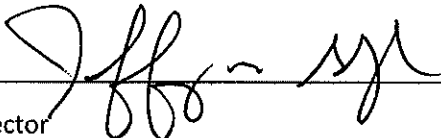
Pickett County School System


Diane Elder  
Director of Schools  
141 Skyline Dr.  
Byrdstown, TN 38549  
(931) 864-3123  
[diane.elder@pckettk12.net](mailto:diane.elder@pckettk12.net)

Kenny Tompkins  
CTE Supervisor  
141 Skyline Dr.  
Byrdstown, TN 38549  
(931) 864-3123  
[Kenny.tompkins@pickettk12.net](mailto:Kenny.tompkins@pickettk12.net)

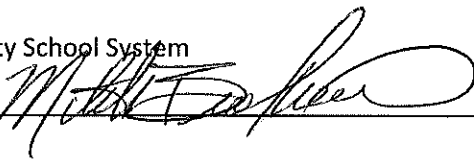
Pickett County High School  
Mitch Buckman  
Principal  
130 Skyline Drive  
Byrdstown, TN 38549  
(931) 864-3422  
[mitch.buckman@pickettk12.net](mailto:mitch.buckman@pickettk12.net)

The parties to this MOU through their authorized representatives confirm their acceptance on the days and dates set out below, and certify that they have read, understood, and agreed to the terms and conditions of this MOU.

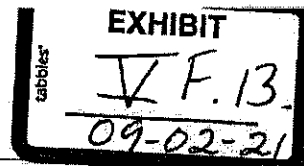
Signature:  Date: 9/2/2021  
Program Director

TCAT Livingston  
Signature:  Date: 9-2-21  
Director of Schools

Pickett County School System  
Signature:  Date: 9-2-21  
CTE Director

Pickett County School System  
Signature:  Date: 9-2-21  
Principal

Pickett County High School



## **GIVE 2.0 Memorandum of Understanding**

BOE approval  
X Reid

### Memorandum of Understanding

Between

Tennessee College of Applied Technology Livingston

And

Putnam County School System

Cookeville High School

Lusli-  
When you obtain  
TCAT specialized  
signature,  
please submit  
a copy for our  
records. Thank  
X Reid

This Memorandum of Understanding (MOU) sets for the terms and understanding between Tennessee College of Applied Technology Livingston, the Putnam County School System, and Cookeville High School to establish the terms and conditions under which the Governor's Investment in Vocational Education 2.0 (GIVE 2.0) grant program will function.

### **Purpose**

This MOU will provide an understanding of the roles and responsibilities of each partner and how their efforts will develop long term partnerships.

The partnership outlined in this memorandum will support efforts to develop an employer-driven career path that can be obtained through higher education programs. This partnership provides high school students the opportunity to earn both TCAT (clock hours) and high school graduation credits simultaneously upon successful completion of qualified course(s).

The qualified program/courses are: Advanced Manufacturing Program of Study and courses include industrial maintenance, robotics and automation, mechatronics, and injection molding.

Instructors for the dual enrollment classes shall be subject to the approval of all partners and will adhere to the College policies regarding academic standards and documentation of attendance and grades.

### **Reporting**

The lead agency, TCAT Livingston, Program Director, and GIVE 2.0 advisory board will evaluate effectiveness and adherence to the agreement. The advisory board will meet twice per year, or more often if needed, to relay progress or issues related to program implementation.

In accordance with the guidelines set forth by the Tennessee Board of Regents (TBR), the Tennessee Higher Education Commission (THEC), and the procedures established by TCAT Livingston reserves the right to schedule an observation of the class by the Program Director at any time to ensure that college-level outcomes are met.

received  
08-31-21

CK  
BR

**Duration**

This MOU shall become effective beginning with the execution of the GIVE 2.0 grant contract and will remain in effect for a period of no less than 30 months. The MOU may be modified or extended by mutual consent of the partners. In the absence of mutual agreement by the authorized officials from TCAT Livingston, Putnam County School System, and Cookeville High School an individual partner can terminate their participation by giving a written notice of intent to terminate.

**Duties of each partner**

This section will describe the responsibilities as agreed upon for each partner.

**Responsibilities of TCAT Livingston:**

- Serve as the lead entity of the grant;
- Coordinate all grant activities;
- Provide program instructor;
- Manage partner participation;
- Complete any reports necessary to administer the grant;
- Monitor and audit partnership contracts;
- Other responsibilities to support grant activity;
- Provide instructional equipment.

**Responsibilities of Putnam County School System and Cookeville High School:**

- Recruit and refer students to the program;
- Communicate with partners on program development and progress;
- Develop industry partnerships within the community;
- Provide space for advisement.
- Provide classroom space and instructional equipment;
- Provide instructional facility.

**Contact Information**

Tennessee College of Applied Technology – Livingston

Jeffrey M. Slagle

Program Director

740 Hi Tech Drive

Livingston, TN 38570

(931) 823-5525

[jeffrey.slagle@TCATLivingston.edu](mailto:jeffrey.slagle@TCATLivingston.edu)



Putnam County School System

Corby King

Director of Schools

1400 East Spring Street

Cookeville, TN 38506

(931) 526-9777

[kingc11@pcsstn.com](mailto:kingc11@pcsstn.com)

Dr. Leslie Eldridge

CTE Programs Supervisor

1400 East Spring Street

Cookeville, TN 38506

(931) 526-9777

[leslie.eldridge@pcsstn.com](mailto:leslie.eldridge@pcsstn.com)

Max Petett

Principal

1 Cavaller Drive

Cookeville, TN 38501

(931) 520-2287

[max.petett@pcsstn.com](mailto:max.petett@pcsstn.com)

The parties to this MOU through their authorized representatives confirm their acceptance on the days and dates set out below, and certify that they have read, understood, and agreed to the terms and conditions of this MOU.

Signature: [Signature] Date: 9/07/2021  
Program Director

TCAT Livingston  
Signature: [Signature] Date: 9/8/21  
Director of Schools

Putnam County School System  
Signature: [Signature] Date: 8-31-21  
CTE Programs Supervisor

Putnam County School System  
Signature: [Signature] Date: 8-31-21  
Principal

Cookeville High School  
[Signature] 9/2/21  
Lynn McHenry Board Chair 09-02-21

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## **GIVE 2.0 Memorandum of Understanding**

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Memorandum of Understanding

Between

Tennessee College of Applied Technology Livingston

and

White County School System

White County High School

This Memorandum of Understanding (MOU) sets for the terms and understanding between Tennessee College of Applied Technology Livingston, the White County School System, and White County High School to establish the terms and conditions under which the Governor's Investment In Vocational Education 2.0 (GIVE 2.0) grant program will function.

### **Purpose**

This MOU will provide an understanding of the roles and responsibilities of each partner and how their efforts will develop long term partnerships.

The partnership outlined in this memorandum will support efforts to develop an employer-driven career path that can be obtained through higher education programs. This partnership provides high school students the opportunity to earn both TCAT (clock hours) and high school graduation credits simultaneously upon successful completion of qualified course(s).

The qualified program/courses are: Advanced Manufacturing Program of Study and courses include industrial maintenance, robotics and automation, mechatronics, and injection molding.

Instructors for the dual enrollment classes shall be subject to the approval of all partners and will adhere to the College policies regarding academic standards and documentation of attendance and grades.

### **Reporting**

The lead agency, TCAT Livingston, Program Director, and GIVE 2.0 advisory board will evaluate effectiveness and adherence to the agreement. The advisory board will meet twice per year, or more often if needed, to relay progress or issues related to program implementation.

In accordance with the guidelines set forth by the Tennessee Board of Regents (TBR), the Tennessee Higher Education Commission (THEC), and the procedures established by TCAT Livingston reserves the right to schedule an observation of the class by the Program Director at any time to ensure that college-level outcomes are met.

**Duration**

This MOU shall become effective beginning with the execution of the GIVE 2.0 grant contract and will remain in effect for a period of no less than 30 months. The MOU may be modified or extended by mutual consent of the partners. In the absence of mutual agreement by the authorized officials from TCAT Livingston, White County School System, and White County High School an individual partner can terminate their participation by giving a written notice of intent to terminate.

**Duties of each partner**

This section will describe the responsibilities as agreed upon for each partner.

**Responsibilities of TCAT Livingston:**

- Serve as the lead entity of the grant;
- Coordinate all grant activities;
- Provide program instructor;
- Manage partner participation;
- Complete any reports necessary to administer the grant;
- Monitor and audit partnership contracts;
- Other responsibilities to support grant activity;
- Provide instructional equipment.

**Responsibilities of White County School System and White County High School:**

- Recruit and refer students to the program;
- Communicate with partners on program development and progress;
- Develop industry partnerships within the community;
- Provide space for advisement.
- Provide classroom space and instructional equipment;
- Provide instructional facility.

**Contact Information**

Tennessee College of Applied Technology – Livingston

Jeffrey M. Slagle

Program Director

740 Hi Tech Drive

Livingston, TN 38570

(931) 823-5525

[jeffrey.slagle@TCATLivingston.edu](mailto:jeffrey.slagle@TCATLivingston.edu)

White County School System

Kurt Dronebarger

Director of Schools

576 Hale Street

Sparta, TN 38583

(931) 836-2229

[kurt.dronebarger@whitecoschools.net](mailto:kurt.dronebarger@whitecoschools.net)

White County High School

Tim Mackie

CTE Director

267 Allen Drive

Sparta, TN 38583

(931) 836-3214

[tim.mackie@whitecoschools.net](mailto:tim.mackie@whitecoschools.net)

Greg Wilson

Principal

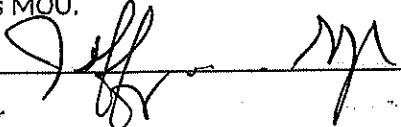
267 Allen Drive


Sparta, TN 38583

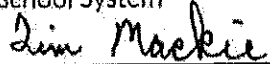
(931) 836-3214

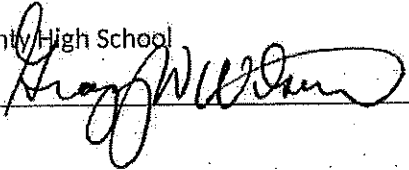
[greg.wilson@whitecoschools.net](mailto:greg.wilson@whitecoschools.net)

The parties to this MOU through their authorized representatives confirm their acceptance on the days and dates set out below, and certify that they have read, understood, and agreed to the terms and conditions of this MOU.

Signature:  Date: 9/02/2021  
Program Director

TCAT Livingston  
Signature:  Date: 9/2/2021  
Director of Schools

White County School System  
Signature:  Date: 9-2-2021  
CTE Director

White County High School  
Signature:  Date: 9/2/2021  
Principal  
White County High School

## **GIVE Memorandum of Understanding**

### **Memorandum of Understanding**

Between  
Tennessee College of Applied Technology Livingston  
and  
Clay County Schools; Jackson County Schools; Overton County Schools;  
Pickett County Schools; Putnam County Schools; White County Schools  
and  
ATC Automation

This Memorandum of Understanding ("MOU") sets the terms and understanding between Tennessee College of Applied Technology Livingston ("TCAT Livingston"); Clay County Schools, Jackson County Schools, Overton County Schools, Pickett County Schools, Putnam County Schools, White County Schools ("Upper Cumberland Educational Partners"); and ATC Automation ("ATC") to establish the terms and conditions under which the Governor's Investment in Vocational Education ("GIVE") grant program will function.

#### **Purpose**

This MOU will provide an understanding of the roles and responsibilities of each partner and how their efforts will develop long term partnerships. The partnership outlined in this memorandum will support efforts to develop an employer-driven career path that can be obtained through higher education programs.

#### **Reporting**

The TCAT Livingston Program Director and GIVE Advisory Board will evaluate effectiveness and adherence to the agreement. The Advisory Board will meet twice per year, or more often if needed, to relay progress or issues related to program implementation. During this time, TCAT Livingston, Upper Cumberland Educational Partners, and industry and community partners will have the opportunity to share data necessary to evaluate the success of the program. Program requirements will be continuously adjusted accordingly.

#### **Duration**

This MOU shall become effective beginning with the execution of the GIVE grant contract and will remain in effect for a period of no less than 30 months. The MOU may be modified or extended by mutual consent of the partners. In the absence of mutual agreement by the authorized officials from TCAT Livingston, Upper Cumberland Educational Partners, and ATC, an individual partner can terminate their participation by giving a written notice of intent to terminate.

#### **Duties of Each Partner**

This section will describe the responsibilities as agreed upon for each partner.

##### **Responsibilities of TCAT Livingston:**

- Serve as the lead entity of the grant;
- Coordinate all grant activities;
- Manage partner participation;
- Complete any reports necessary to administer the grant;
- Monitor and audit partnership contracts;
- Other responsibilities to support grant activity.

##### **Responsibilities of Upper Cumberland Educational Partners:**

- Recruit and refer students to the program;
- Communicate with partners on program development and progress;
- Develop industry partnerships within the community;
- Provide space for advisement.

Responsibilities of ATC Automation [include but are not limited to some or all of the following]:

- Serve as a work-based learning/internship placement site for high school and/or TCAT students;
- Participate in Interview Bootcamps;
- Serve as a site for teacher externships;
- Serve as a guest speaker in advanced manufacturing classrooms;
- Provide industry tours;
- Additional opportunities as needs arise and are agreed upon by the partners listed in this memorandum.

#### **Contact Information**

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Putnam County Schools

Corby King

Director of Schools

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(931) 526-9777

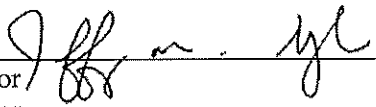
kingc11@pcsstn.com




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ATC Automation  
Bill Curran  
President  
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(931) 528-5417  
billc@atcautomation.com

The parties in this MOU through their authorized representatives confirm their acceptance on the days and dates set out below, and certify that they have read, understood, and agreed to the terms and conditions of this MOU.

Signature  Date: 9/13/2021  
Program Director  
TCAT Livingston


Signature  Date: 9/13/2021  
Director of Schools  
Clay County Schools

Signature  Date: 9/14/2021  
Director of Schools  
Jackson County Schools

Signature  Date: 9/08/2021  
Director of Schools  
Overton County Schools

Signature  Date: 9/13/2021  
Director of Schools  
Pickett County Schools

Signature  Date: 9/10/2021  
Director of Schools  
Putnam County Schools

Signature  Date: 9/09/2021  
Director of Schools  
White County Schools

Signature  Date: 9/14/2021  
President  
ATC Automation

## **GIVE Memorandum of Understanding**

### **Memorandum of Understanding**

Between  
Tennessee College of Applied Technology Livingston  
and  
Clay County Schools; Jackson County Schools; Overton County Schools;  
Pickett County Schools; Putnam County Schools; White County Schools  
and  
TTI Floorcare North America

This Memorandum of Understanding ("MOU") sets the terms and understanding between Tennessee College of Applied Technology Livingston ("TCAT Livingston"); Clay County Schools, Jackson County Schools, Overton County Schools, Pickett County Schools, Putnam County Schools, White County Schools ("Upper Cumberland Educational Partners"); and TTI Floorcare North America ("TTI") to establish the terms and conditions under which the Governor's Investment in Vocational Education ("GIVE") grant program will function.

#### **Purpose**

This MOU will provide an understanding of the roles and responsibilities of each partner and how their efforts will develop long term partnerships. The partnership outlined in this memorandum will support efforts to develop an employer-driven career path that can be obtained through higher education programs.

#### **Reporting**

The TCAT Livingston Program Director and GIVE Advisory Board will evaluate effectiveness and adherence to the agreement. The Advisory Board will meet twice per year, or more often if needed, to relay progress or issues related to program implementation. During this time, TCAT Livingston, Upper Cumberland Educational Partners, and industry and community partners will have the opportunity to share data necessary to evaluate the success of the program. Program requirements will be continuously adjusted accordingly.

#### **Duration**

This MOU shall become effective beginning with the execution of the GIVE grant contract and will remain in effect for a period of no less than 30 months. The MOU may be modified or extended by mutual consent of the partners. In the absence of mutual agreement by the authorized officials from TCAT Livingston, Upper Cumberland Educational Partners, and TTI, an individual partner can terminate their participation by giving a written notice of intent to terminate.

#### **Duties of Each Partner**

This section will describe the responsibilities as agreed upon for each partner.

##### **Responsibilities of TCAT Livingston:**

- Serve as the lead entity of the grant;
- Coordinate all grant activities;
- Manage partner participation;
- Complete any reports necessary to administer the grant;
- Monitor and audit partnership contracts;
- Other responsibilities to support grant activity.

##### **Responsibilities of Upper Cumberland Educational Partners:**

- Recruit and refer students to the program;
- Communicate with partners on program development and progress;
- Develop industry partnerships within the community;
- Provide space for advisement.

Responsibilities of TTI Floorcare North America [include but are not limited to some or all of the following]:

- Serve as a work-based learning/internship placement site for high school and/or TCAT students;
- Participate in Interview Bootcamps;
- Serve as a site for teacher externships;
- Serve as a guest speaker in advanced manufacturing classrooms;
- Provide industry tours;
- Additional opportunities as needs arise and are agreed upon by the partners listed in this memorandum.

**Contact Information**

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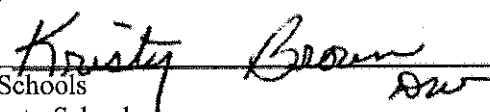
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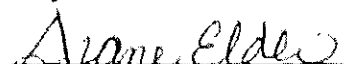
The parties in this MOU through their authorized representatives confirm their acceptance on the days and dates set out below, and certify that they have read, understood, and agreed to the terms and conditions of this MOU.

Signature  Date: 9/13/2021  
Program Director  
TCAT Livingston

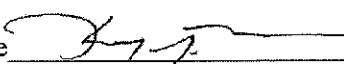
Signature  Date: 9/13/2021  
Director of Schools  
Clay County Schools

Signature  Date: 9/14/2021  
Director of Schools  
Jackson County Schools

Signature  Date: 9/08/2021  
Director of Schools  
Overton County Schools

Signature  Date: 9/13/2021  
Director of Schools  
Pickett County Schools

Signature  Date: 9/10/2021  
Director of Schools  
Putnam County Schools

Signature  Date: 9/09/2021  
Director of Schools  
White County Schools

Signature  Date: 9/14/2021  
Vice President of Operations  
TTI Floorcare North America

## **GIVE Memorandum of Understanding**

### **Memorandum of Understanding**

Between

Tennessee College of Applied Technology Livingston  
and

Clay County Schools; Jackson County Schools; Overton County Schools;  
Pickett County Schools; Putnam County Schools; White County Schools  
and

Aphena Pharma Solutions

This Memorandum of Understanding ("MOU") sets the terms and understanding between Tennessee College of Applied Technology Livingston ("TCAT Livingston"); Clay County Schools, Jackson County Schools, Overton County Schools, Pickett County Schools, Putnam County Schools, White County Schools ("Upper Cumberland Educational Partners"); and Aphena Pharma Solutions ("Aphena") to establish the terms and conditions under which the Governor's Investment in Vocational Education ("GIVE") grant program will function.

#### **Purpose**

This MOU will provide an understanding of the roles and responsibilities of each partner and how their efforts will develop long term partnerships. The partnership outlined in this memorandum will support efforts to develop an employer-driven career path that can be obtained through higher education programs.

#### **Reporting**

The TCAT Livingston Program Director and GIVE Advisory Board will evaluate effectiveness and adherence to the agreement. The Advisory Board will meet twice per year, or more often if needed, to relay progress or issues related to program implementation. During this time, TCAT Livingston, Upper Cumberland Educational Partners, and industry and community partners will have the opportunity to share data necessary to evaluate the success of the program. Program requirements will be continuously adjusted accordingly.

#### **Duration**

This MOU shall become effective beginning with the execution of the GIVE grant contract and will remain in effect for a period of no less than 30 months. The MOU may be modified or extended by mutual consent of the partners. In the absence of mutual agreement by the authorized officials from TCAT Livingston, Upper Cumberland Educational Partners, and Aphena, an individual partner can terminate their participation by giving a written notice of intent to terminate.

#### **Duties of Each Partner**

This section will describe the responsibilities as agreed upon for each partner.

##### **Responsibilities of TCAT Livingston:**

- Serve as the lead entity of the grant;
- Coordinate all grant activities;
- Manage partner participation;
- Complete any reports necessary to administer the grant;
- Monitor and audit partnership contracts;
- Other responsibilities to support grant activity.

##### **Responsibilities of Upper Cumberland Educational Partners:**

- Recruit and refer students to the program;
- Communicate with partners on program development and progress;
- Develop industry partnerships within the community;
- Provide space for advisement.

Responsibilities of Aphena Pharma Solutions [include but are not limited to some or all of the following]:

- Serve as a work-based learning/internship placement site for high school and/or TCAT students;
- Participate in Interview Bootcamps;
- Serve as a site for teacher externships;
- Serve as a guest speaker in advanced manufacturing classrooms;
- Provide industry tours;
- Additional opportunities as needs arise and are agreed upon by the partners listed in this memorandum.

#### **Contact Information**

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Corby King

Director of Schools

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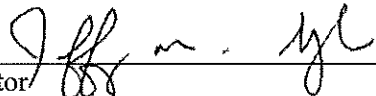
(931) 526-9777

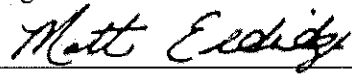
kingc11@pcsstn.com

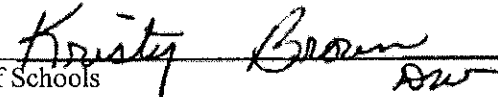
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Kurt Dronebarger  
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(931) 836-2229  
kurt.dronebarger@whitecoschools.net

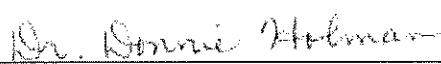
Aphena Pharma Solutions  
Kimberly Gillespie  
HR Director  
1920 Fisk Road  
Cookeville, TN 38506  
(931) 372-2041  
kgillespie@aphenapharma.com

The parties in this MOU through their authorized representatives confirm their acceptance on the days and dates set out below, and certify that they have read, understood, and agreed to the terms and conditions of this MOU.

Signature  Date: 9/13/2021  
Program Director  
TCAT Livingston

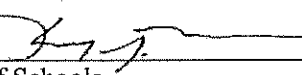
Signature  Date: 9/13/2021  
Director of Schools  
Clay County Schools

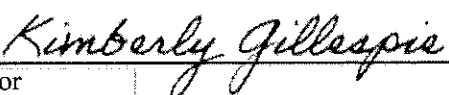
Signature  Date: 9/14/2021  
Director of Schools  
Jackson County Schools

Signature  Date: 9/08/2021  
Director of Schools  
Overton County Schools

Signature  Date: 9/13/2021  
Director of Schools  
Pickett County Schools

Signature  Date: 9/10/2021  
Director of Schools  
Putnam County Schools

Signature  Date: 9/09/2021  
Director of Schools  
White County Schools

Signature  Date: 9/14/2021  
HR Director  
Aphena Pharma Solutions

## **GIVE Memorandum of Understanding**

### **Memorandum of Understanding**

Between

Tennessee College of Applied Technology Livingston

and

Clay County Schools; Jackson County Schools; Overton County Schools;

Pickett County Schools; Putnam County Schools; White County Schools

and

Hutchinson FMS Inc.

This Memorandum of Understanding ("MOU") sets the terms and understanding between Tennessee College of Applied Technology Livingston ("TCAT Livingston"); Clay County Schools, Jackson County Schools, Overton County Schools, Pickett County Schools, Putnam County Schools, White County Schools ("Upper Cumberland Educational Partners"); and Hutchinson FMS Inc. ("Hutchinson") to establish the terms and conditions under which the Governor's Investment in Vocational Education ("GIVE") grant program will function.

#### **Purpose**

This MOU will provide an understanding of the roles and responsibilities of each partner and how their efforts will develop long term partnerships. The partnership outlined in this memorandum will support efforts to develop an employer-driven career path that can be obtained through higher education programs.

#### **Reporting**

The TCAT Livingston Program Director and GIVE Advisory Board will evaluate effectiveness and adherence to the agreement. The Advisory Board will meet twice per year, or more often if needed, to relay progress or issues related to program implementation. During this time, TCAT Livingston, Upper Cumberland Educational Partners, and industry and community partners will have the opportunity to share data necessary to evaluate the success of the program. Program requirements will be continuously adjusted accordingly.

#### **Duration**

This MOU shall become effective beginning with the execution of the GIVE grant contract and will remain in effect for a period of no less than 30 months. The MOU may be modified or extended by mutual consent of the partners. In the absence of mutual agreement by the authorized officials from TCAT Livingston, Upper Cumberland Educational Partners, and Hutchinson, an individual partner can terminate their participation by giving a written notice of intent to terminate.

#### **Duties of Each Partner**

This section will describe the responsibilities as agreed upon for each partner.

##### **Responsibilities of TCAT Livingston:**

- Serve as the lead entity of the grant;
- Coordinate all grant activities;
- Manage partner participation;
- Complete any reports necessary to administer the grant;
- Monitor and audit partnership contracts;
- Other responsibilities to support grant activity.

##### **Responsibilities of Upper Cumberland Educational Partners:**

- Recruit and refer students to the program;
- Communicate with partners on program development and progress;
- Develop industry partnerships within the community;
- Provide space for advisement.



Responsibilities of Aphena Pharma Solutions [include but are not limited to some or all of the following]:

- Serve as a work-based learning/internship placement site for high school and/or TCAT students;
- Participate in Interview Bootcamps;
- Serve as a site for teacher externships;
- Serve as a guest speaker in advanced manufacturing classrooms;
- Provide industry tours;
- Additional opportunities as needs arise and are agreed upon by the partners listed in this memorandum.

#### **Contact Information**

Tennessee College of Applied Technology – Livingston

Jeff Slagle

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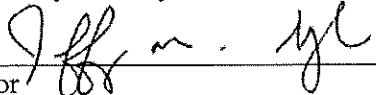
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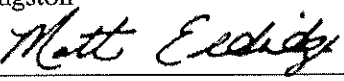
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The parties in this MOU through their authorized representatives confirm their acceptance on the days and dates set out below, and certify that they have read, understood, and agreed to the terms and conditions of this MOU.

Signature  Date: 9/13/2021  
Program Director  
TCAT Livingston

Signature  Date: 9/13/2021  
Director of Schools  
Clay County Schools

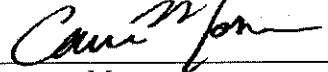
Signature  Date: 9/14/2021  
Director of Schools  
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Director of Schools  
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Director of Schools  
Putnam County Schools

Signature  Date: 9/09/2021  
Director of Schools  
White County Schools

Signature  Date: 9/08/2021  
Human Resources Manager  
Hutchinson FMS Inc.